

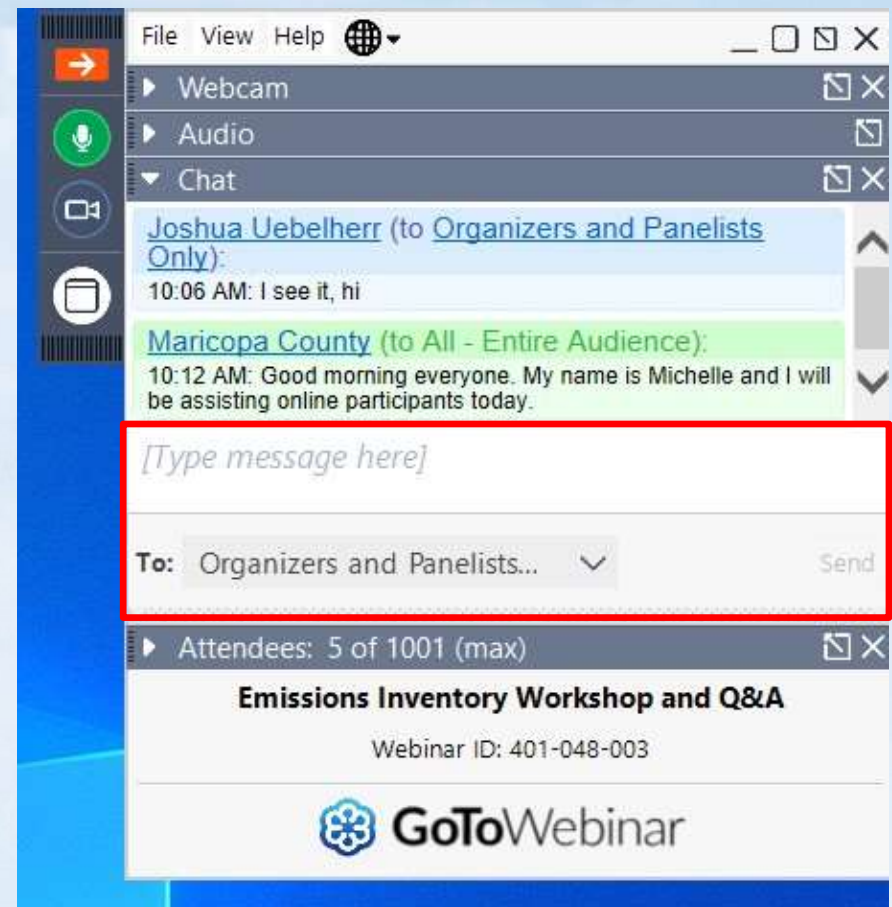


Reporting 2021 Emissions

Joshua Uebelherr, Senior Planner
January 25, 2021

Webinar Info

- All calls are muted to prevent background noise.
- If you have questions for the presenter, type your questions in the chat box in the lower right-hand corner of the Go to Meeting control panel.
- We will answer questions as we go through the presentation.



Mission

To improve the air of Maricopa County, so customers, residents, and visitors can live, work, and play in a healthy environment.



Agenda

- General information
- What's new?
- What to report
- Calculation methods
- Confidential data
- What not to report
- How to report
- Questions

What is an emissions inventory (EI)?

- A submission by a permitted facility that:
 - Lists all processes emitting reportable air pollutants, and
 - Provides details about each of those processes.
- Submitting the emissions inventory is required as a condition of your Maricopa County Air Quality Permit.
- A separate emissions inventory is required for each business location with its own air quality permit.

How are Els used?

- Clean Air Act requirements for State Implementation Plans (SIPs)
- National Ambient Air Quality Standards (NAAQS) attainment
- Determining compliance with regulations and permit conditions
- Identifying sources and general emission levels, patterns, and trends to develop control strategies and new regulations
- Emission Reduction Credit (ERC) Program

Emission Reduction Credits

- Credits are generated when a facility reduces emissions beyond what is required by their permit and applicable rules.
- Credits can be generated by:
 - Installing emission control systems
 - Replacing equipment
 - Changing fuels
 - Closing a facility
- maricopa.gov/4562

What's New for 2021?

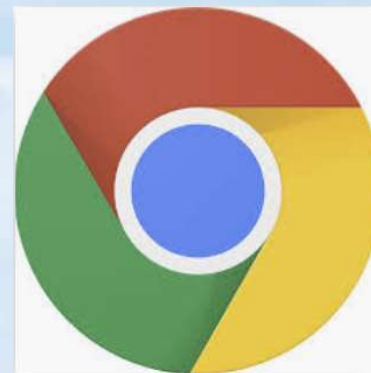
- Annual Emission Fees
 - Title V sources: \$47.50 per ton
 - No fees for Non-Title V sources
- Online Reporting using the AQD Online Portal (IMPACT)
 - Emissions inventories
 - Facility inventory and contact changes
 - Permit applications and forms
 - Compliance reports
 - Performance test protocols
 - Asbestos notifications

AQD Online Portal Resources

- maricopa.gov/1820
 - Electronic signature instructions
 - Permit application instructions
 - Compliance report instructions
 - Performance testing instructions
- maricopa.gov/5628
 - Emissions inventory instructions
 - Process specific help sheets
 - Material usage calculation tool
 - Emissions inventory demonstration

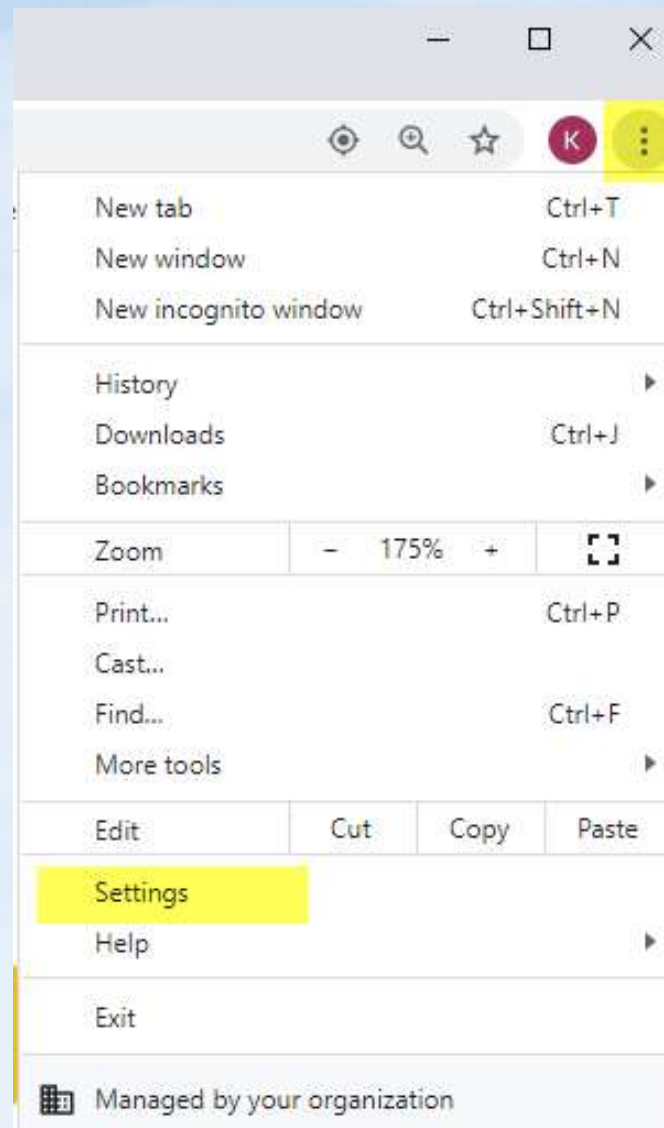
Helpful Hints

- Chrome is the recommended browser.
- Do not use the back and forward buttons.
- Click “Save” on each screen.



Helpful Hints

- Enable popups.



Settings

Search settings

- You and Google
- Autofill
- Privacy and security
- Appearance
- Search engine
- Default browser
- On startup

Advanced

- Languages
- Downloads
- Printing
- Accessibility
- System
- Reset and clean up

Extensions

About Chrome



Site Settings



All sites

View permissions and data stored across sites

Permissions

Cookies and site data
Allow sites to save and read cookie data

Location
Ask before accessing

Camera
Ask before accessing

Microphone
Ask before accessing

Motion sensors
Allow sites to use motion sensors

Notifications
Ask before sending

JavaScript
Allowed

Flash
Block sites from running Flash

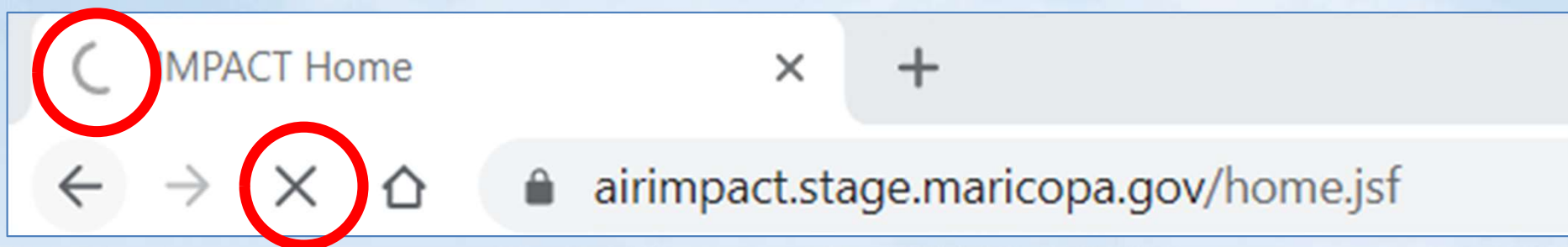
Images
Show all

Pop-ups and redirects
Blocked

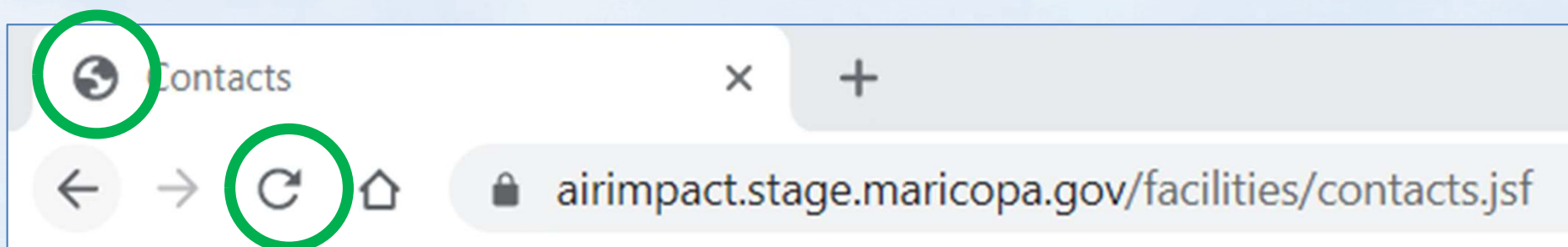
Ads

Helpful Hints

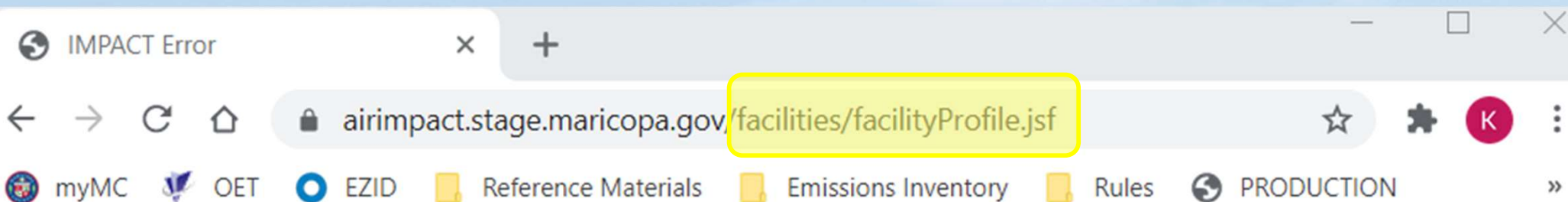
- Loading - do not click anything:



- Ready



Helpful Hints



Error

An error has occurred. Please contact system support.

AQD Online Portal Access

- Create an Shared CROMERR Services (SCS) Electronic Signature.
 - Consultants must submit a registration form first.
- No Sharing Allowed!
 - Each person who will access the AQD Online Portal must have their own SCS Signature.
 - This is required by federal law.
 - Shared signatures will be deactivated by EPA.

SCS Account Types

- Preparers and Certifiers
 - Can create, prepare, and validate emissions inventories, applications, and compliance reports
 - Note: Preparers cannot sign or submit anything.
- Certifiers
 - Can update facility contacts and facility inventories
 - Can sign and submit emissions inventories, applications, and compliance reports
 - Each facility must have at least one certifier.
 - Consultants cannot be certifiers.

SCS Account Process


- Register with SCS
 - SCS account owner – always a person
 - Company – the account owner's employer
- Verify email address
- Identity verification
 - Online with Lexis Nexis; or
 - Notarized paper form provided to MCAQD
- MCAQD links account in the database

Questions




SCS Dashboard

- <https://encromerr.epa.gov/>

 United States Environmental Protection Agency

Logged in as KRISTIBECK (Log out)

Home Recent Announcements

 / Dashboard Contact Us

Program Services
Services | Profile | Mail | Submission History | E-Enterprise Portal



Partner	Program Service	Role	Org	Action
MARICOPA	IMPACT-MARICOPA-STAGING	Certifier	Maricopa County Air Quality Department	Visit


Showing 1 to 1 of 1 rows

Notifications (More)

No notifications

Advanced SCS Home | Privacy and Security Notice
Accessibility | Terms & Conditions



Facility Selection

Account Information

Name: kristibeck **Company Name:** Maricopa County Air Quality Department
CROMERR Company Id: 144430 **Access:** Certifier

▼ Choose Facility

To manage a facility, select its Facility ID from the following list of authorized facilities. To return to the facility selector from another page, press the Facility Selector link in the top right corner.

Facility ID	Facility Name	Operating	Facility Class	Facility Type	County	Lat/Long
F000204	Tom's Bird Rescue	Operating	Minor	Plastics, Polymers, Fiberglass, Foam	Maricopa	33.44859/-112.15594
F006625	AQD Title V Facility	Operating	Title V	Wood Furniture Manufacture	Maricopa	33.49204/-112.07419
F006626	Tardis Engines Inc	Operating	Title V	Bakery	Maricopa	33.49204/-112.07419

[Printable view](#) [Export to excel](#)

▼ Facility Creation Requests

Request ID	Facility Name	Memo	Requester			Operating	Facility Type	County	Date Submitted	Request State
			Last Name	First Name	CROMERR Username					

[Printable view](#) [Export to excel](#)

[Request creation of a new facility](#)

[Show Offset Tracking Information](#)

IMPACT Home

Version 12.0 | Build ID: 25.29.0

Welcome kristibec

IMPACT Home

Task - Facility Contact Change

Task - Facility Inventory Change

Task - Emissions Inventory for 2020 (EI0015913)

Task - NTV Application (A0001214)

Task - NTV Application (A0000980)

Tasks | Current Facility Inventory | Current Owner | Contacts | Applications | Emissions Inventories | Permits | Compliance Reports | Inspection Reports | Performance Test Protocols | External References | Spatial Data

IMPACT Home >

IMPACT Home

Facility Information

Facility ID: F006332
Facility Type: Other (Unknown)
Physical Address: 300 E Indian School Rd
Lat/Long: [33.49862/-112.07034](#)

Facility Name: AQ Production Validation
Company Name: AQ Production Validation
City: Phoenix
PLSS: S20-T2N-R3E

County: Maricopa

In Progress Tasks

Select	Task Type	Task Description	Dependent on Task	Created Date	User Name
<input type="radio"/>	Facility Detail Change	Facility Inventory Change	Facility Contact Change	8/26/2020	aqdarpa1
<input type="radio"/>	Emissions Inventory	Emissions Inventory for 2020 (EI0015913)	Facility Inventory Change	1/6/2021	kristibec
<input type="radio"/>	NTV Permit Application	NTV Application (A0001214)	Facility Inventory Change	8/6/2020	lucybischann
<input type="radio"/>	NTV Permit Application	NTV Application (A0000980)	Facility Inventory Change	5/8/2020	aqdarpa1
<input type="radio"/>	NTV Permit Application	NTV Application (A0000956)	Facility Inventory Change	4/23/2020	aqdarpa1
<input type="radio"/>	Title V Permit Application	Title V Permit Application (A0001228)	Facility Inventory Change	8/26/2020	scott.treece
<input type="radio"/>	Facility Contact Change	Facility Contact Change	N/A	8/26/2020	aqdarpa1

[Delete selected task\(s\)](#) [Printable view](#) [Export to excel](#)

New Tasks

Select from the lists below to create a new task

Facility Management

[Make a change to the Facility Inventory](#)
[Make a change to the Facility Inventory - clone another facility](#)
[Make a change to the Facility Contact\(s\)](#)

Emissions Reporting

[Create an Emissions Inventory](#)

Permitting

[Create a NTV / ATO Permit Application](#)
[Create a Title V Permit Application](#)

Compliance Reporting

[Create a Compliance Report](#)
[Create a Performance Test Protocol](#)



IMPACT Home

Version 12.0 | Build ID: 25.29.0

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IMPACT Home

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Task - NTV Application (A0000980)

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IMPACT Home >

IMPACT Home

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Facility ID: F006332 **Facility Name:** AQ Production Validation **County:** Maricopa
Facility Type: Other (Unknown) **Company Name:** AQ Production Validation
Physical Address: 300 E Indian School Rd **City:** Phoenix
Lat/Long: [33.49862/-112.07034](#) **PLSS:** S20-T2N-R3E

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<input type="radio"/>	Facility Detail Change	Facility Inventory Change	Facility Contact Change	8/26/2020	aqdarpa1
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<input type="radio"/>	NTV Permit Application	NTV Application (A0000956)	Facility Inventory Change	4/23/2020	aqdarpa1
<input type="radio"/>	Title V Permit Application	Title V Permit Application (A0001228)	Facility Inventory Change	8/26/2020	scott.treece
<input type="radio"/>	Facility Contact Change	Facility Contact Change	N/A	8/26/2020	aqdarpa1

[Delete selected task\(s\)](#) [Printable view](#) [Export to excel](#)

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[Create a Performance Test Protocol](#)



IMPACT Home

Version 12.0 | Build ID: 25.29.0

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IMPACT Home

Task - Facility Contact Change

Task - Facility Inventory Change

Task - Emissions Inventory for 2020 (EI0015913)

Task - NTV Application (A0001214)

Task - NTV Application (A0000980)

Tasks

Current Facility Inventory

Current Owner

Contacts

Applications

Emissions Inventories

Permits

Compliance Reports

Inspection Reports

Performance Test Protocols

External References

Spatial Data

[IMPACT Home](#) >

IMPACT Home

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<input type="radio"/>	NTV Permit Application	NTV Application (A0000980)	Facility Inventory Change	5/8/2020	aqdarpa1
<input type="radio"/>	NTV Permit Application	NTV Application (A0000956)	Facility Inventory Change	4/23/2020	aqdarpa1
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<input type="radio"/>	Facility Contact Change	Facility Contact Change	N/A	8/26/2020	aqdarpa1

Delete selected task(s)

Printable view

Export to excel

New Tasks

Select from the lists below to create a new task

Facility Management

Make a change to the Facility Inventory

Make a change to the Facility Inventory - clone another facility

Make a change to the Facility Contact(s)

Emissions Reporting

Create an Emissions Inventory

Permitting

Create a NTV / ATO Permit Application

Create a Title V Permit Application

Compliance Reporting

Create a Compliance Report

Create a Performance Test Protocol



Create an Emissions Inventory

Version 11.0 | Build ID: 24.8.0

Welcome HMilosevic

Facility Selector

IMPACT Home

Task - Facility Co

[Tasks](#) | [Current Facility Inventory](#) | [Current Owner](#) | [Contacts](#) | [Applications](#) | [Emissions Inventories](#) | [Permits](#) | [Stack Tests](#) | [Compliance Reports](#) | [Inspection Reports](#) | [External References](#) | [Spatial](#)

[IMPACT Home](#) >

IMPACT Home

Facility Information

Facility ID: F006335 Facility Name: AQ Test County: Maricopa
Facility Type: Composite Materials Manufacturing Company Name: Maricopa County Air Quality Department
Physical Address: 3850 N Central Ave City: Phoenix
Lat/Long: 33.41190/-112.07345 PLSS: S20-T1N-R3E

In Progress Tasks

Select	Task Type	Task Description	Dependent on Task	Created Date	User Name
<input type="radio"/>	Facility Contact Change	Facility Contact Change	N/A	10/2/2019	lucinda.swann

[Delete selected task\(s\)](#) [Printable view](#) [Export to excel](#)

New Tasks

Select from the lists below to create a new task

Facility Management

[Make a change to the Facility Inventory](#)
[Make a change to the Facility Inventory - clone another facility](#)
[Make a change to the Facility Contact\(s\)](#)

Permitting

[Create a NTV / ATO Permit Application](#)
[Create a Title V Permit Application](#)

Compliance Reporting

[Create a Compliance Report](#)

Emissions Reporting

[Create an Emissions Inventory](#)

[IMPACT Home](#) | [Task - Facility Contact Change](#) | [Facility Selector](#) | [SCS Dashboard](#)



Create an Emissions Inventory

- Reporting year – 2021
- Content type – Annual
- Facilities that did not report 2020 emissions
 - Click create

Create Another Emissions Inventory - Google Chrome

airimpact.stage.maricopa.gov/_ADFv_.jsf?_afPfm=3&_t=fred&_vir=/reports/createReport.jsp&loc=en&_minWidth=900&_minHeight=600&_rtr...

For reporting year: 2021 ▼
For content type: Annual ▼

You are creating the first Annual emissions inventory for the year 2021. This emissions inventory will be associated with the current facility inventory.

Copy data from existing emissions inventory : ☐

Create Cancel

Create an Emissions Inventory

You may copy data for a facility with an approved 2020 emissions inventory.

Create Another Emissions Inventory - Google Chrome

airimpact.stage.maricopa.gov/_ADFv__jsf?_afPfm=5&t=fred&_vir=/reports/createReport.jsp&loc=en&_minWidth=900&_minHeight=600&_rtr...

For reporting year: 2021 ▼
For content type: Annual ▼

You are creating the first Annual emissions inventory for the year 2021. This emissions inventory will be associated with the current facility inventory.

Copy data from existing emissions inventory : ☒

To minimize errors, this emissions inventory will be associated with the current facility inventory, not the facility inventory used at the time of last submission. If necessary, you may associate the emissions inventory with a different facility inventory by clicking **Associate with Different Facility Inventory** after creating the emissions inventory.

Select the emissions inventory you wish to copy data from for the new emissions inventory you are creating by clicking on the emissions inventory number.

Note: If the emissions inventory that you select was generated from an import file, then the emissions calculation method will be changed from **AQD Generated** to **Emissions** in the emissions inventory that will be created.

Inventory ID	Previous Inventory	Facility History ID	Year	Content Type	Regulatory Requirements	Reporting State	Received Date	Total Emissions Reported (Tons)
EI0016675		65202	2020	Annual	Title V Program	Approved	11/10/2021	55.2402

Printable view Export to excel

Cancel

Task 1

- Facility Contact Change
- Review
- Update as necessary
- Validate changes
- Do not submit changes yet!

Update Facility Contacts

Version 13.0 | Build ID: 26.35.0

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[Facility Selector](#) [Asbestos Notification](#) [Settlements](#) [SCS Dashboard](#)

[IMPACT Home](#)

[Task - Facility Contact Change](#)

[Task - Emissions Inventory for 2021 \(EI0016679\)](#)

[Task - Facility Inventory Change](#)

Contacts

[Task - Facility Contact Change](#) >

Contacts

Facility ID: F006332

Facility Name: AQ Production Validation

County: Maricopa

Version Start Date: 11/18/2021

Facility Type: Other (Unknown)

Company Name: AQ Production Validation

Version End Date: Current

Facility Contacts

Contact Type	Contact ID	Contact Name	Job Title	Phone Number	Email	Start Date	End Date
Consultant	CNT010623	Assistance, Business		(602)506-5102	AQBusinessAssistance@maricopa.gov	3/4/2021	
Responsible Official	CNT010747	Darpa, AQ		(602)372-7333	aqdarpa@maricopa.gov	4/23/2020	
Billing Contact	CNT010747	Darpa, AQ		(602)372-7333	aqdarpa@maricopa.gov	4/23/2020	
Consultant	CNT035784	Gaskill, Thomas		(602)372-2250	tom.gaskill@maricopa.gov	5/22/2021	
Compliance Contact	CNT008880	Swann, Lucinda		(602)372-7333	lucinda.swann@maricopa.gov	7/13/2020	
On Site Operator	CNT008802	Whitney, Stephanie		(602)506-6014	Stephanie.Whitney@maricopa.gov	7/13/2020	

[Printable view](#)

[Export to excel](#)

[Assign Contact Type](#)

[Show All Contacts](#)

All Company Contacts

Contact ID	Last Name	First Name	Job Title	Phone	Email	Company ID	Company Name
CNT028780	Lem	Emily	Engineer	(602)506-6010	emily.lem@maricopa.gov	CMP004063	AQ Production Validation
CNT028620	Lopez	Carlos	Permit Technician	(602)506-6010	carlos.lopez@maricopa.gov	CMP004063	AQ Production Validation
CNT028764	Lyman	Hannah	Engineer	(602)506-6010	hannah.lyman@maricopa.gov	CMP004063	AQ Production Validation
CNT036446	Mandalfino	Bryan	Assistant Manager	(602)506-6010	bryan.mandalfino@maricopa.gov	CMP004063	AQ Production Validation

[Previous 25](#) [26-44 of 44](#) [Next](#)

Add New Contacts

▼ All Company Contacts

[Previous](#) 25 26-44 of 44 [Next](#)

Contact ID	Last Name	First Name	Job Title	Phone	Email	Company ID	Company Name
CNT028780	Lem	Emily	Engineer	(602)506-6010	emily.lem@maricopa.gov	CMP004063	AQ Production Validation
CNT028620	Lopez	Carlos	Permit Technician	(602)506-6010	carlos.lopez@maricopa.gov	CMP004063	AQ Production Validation
CNT028764	Lyman	Hannah	Engineer	(602)506-6010	hannah.lyman@maricopa.gov	CMP004063	AQ Production Validation
CNT036446	Mandalfino	Bryan	Assistant Manager	(602)506-6010	bryan.mandalfino@maricopa.gov	CMP004063	AQ Production Validation
CNT028714	Martin	Todd	Supervisor	(602)506-6010	todd.martin@maricopa.gov	CMP004063	AQ Production Validation
CNT038470	Moss	David	Geographic Information Officer	(602)506-6010	David.Moss@maricopa.gov	CMP004063	AQ Production Validation
CNT029049	Nguyen	Quyen	Engineer	(602)506-6010	quyen.nguyen@maricopa.gov	CMP004063	AQ Production Validation
CNT028619	Poole	Eric	Supervisor	(602)506-6010	eric.poole@maricopa.gov	CMP004063	AQ Production Validation
CNT028618	Raisanen	Eric	Planner	(602)506-6010	eric.raisanen@maricopa.gov	CMP004063	AQ Production Validation
CNT029270	Rike	Alec	Engineer	(602)506-6010	alec.rike@maricopa.gov	CMP004063	AQ Production Validation
CNT036443	Sandy	Sean	Inspector II	(602)506-6010	sean.sandy@maricopa.gov	CMP004063	AQ Production Validation
CNT028784	Stanczak	Nicole	Engineer	(602)506-6010	nicole.stanczak@maricopa.gov	CMP004063	AQ Production Validation
CNT028668	Sumner	Richard	Supervisor	(602)506-6010	richard.sumner@maricopa.gov	CMP004063	AQ Production Validation
CNT008880	Swann	Lucinda		(602)372-7333	lucinda.swann@maricopa.gov	CMP004063	AQ Production Validation
CNT028782	Thompson	Mark	Permit Technician	(602)506-6010	mark.thompson@maricopa.gov	CMP004063	AQ Production Validation
CNT028810	Treece	Scott	Supervisor	(602)506-6010	scott.treece@maricopa.gov	CMP004063	AQ Production Validation
CNT028993	Uebelherr	Joshua	Planner	(602)506-6010	joshua.uebelherr@maricopa.gov	CMP004063	AQ Production Validation
CNT041129	Valenzuela	Hanna	Manager	(602)506-6939	Hanna.Valenzuela@maricopa.gov	CMP004063	AQ Production Validation
CNT008902	Whitney	Stephanie		(602)506-6014	Stephanie.Whitney@maricopa.gov	CMP004063	AQ Production Validation

[Previous](#) 25 26-44 of 44 [Next](#)

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[Create Contact Person](#)

[Submit](#)

Questions

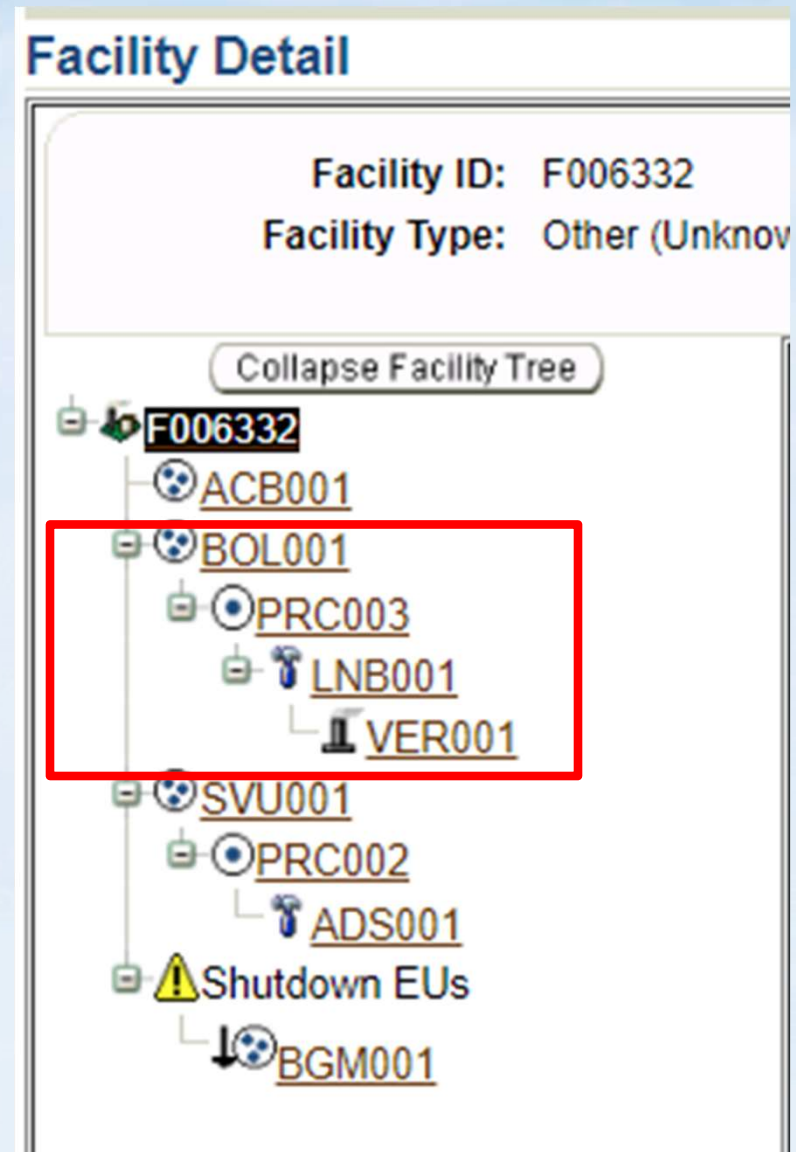


Task 2

- Facility Inventory Change
 - Review facility inventory tree
 - Update as necessary
 - Facility inventory tree should reflect the actual equipment and operations at the facility
- Report the number of employees that worked at the facility or telecommuted for the facility
- Validate changes
- *Do not submit changes yet*

Facility Inventory Tree

- Emission Units
- Emissions Processes
- Control Equipment
- Release Points



Emission Units (EUs)

Collapse Facility Tree

F006332

ACB001

BOL001

PRC003

LNB001

VER001

SVU001

PRC002

ADS001

Shutdown EUs

BGM001

Emissions Unit Information

AQD ID: BOL001

Emission Unit Type: Boiler

[Help me select the Emission Unit Type](#)

AQD Description:

Company Equipment ID: 005

Company Equipment Description: high temperature hot water heater

Operating Status: Operating

Quantity: 1

Enter a value greater than 1 only in the scenario where you have multiple "identical" emission units that have the same emissions process and whose air flow follows the same path.

Initial Construction Commencement Date: 5/27/2000

Initial Operation Commencement Date: 7/27/2000

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

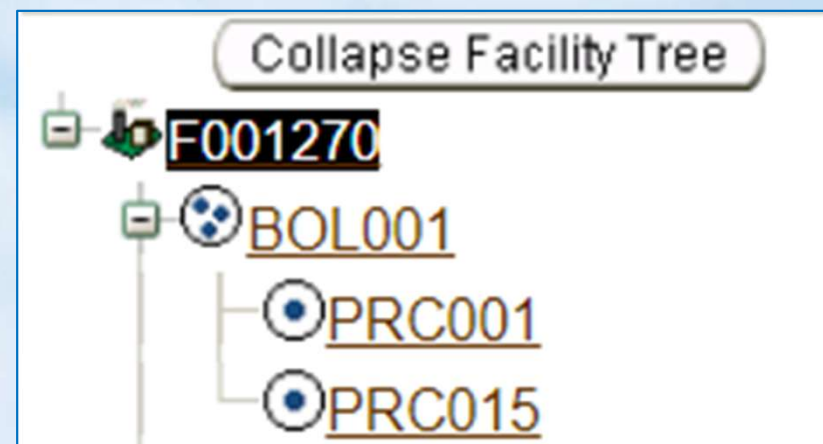
Emission Unit Types

Emission Unit Type Selection:

Abbreviation	Select This	If you have one of these
ABS	Abrasive Blasting	Abrasive Blasting
ACB	Air Curtain Burner	Air Curtain Burner, Air Curtain Destructor
BAK	Bakery	Bakery
BGM	Bagging Machine	Bagging Machine
BOL	Boiler	Boilers (Not used for electrical generation)
CKD	Calciner/Kiln/Dryer/Smelter/Foundry Furnace	Calciner, Kiln, Dryer, Smelter/Foundry Furnace, Fluid Bed Dryer
CMX	Concrete Batch/Cement Mixer	Concrete Batch/Cement Mixers
COT	Spray Booth or Coating Line	Bay, Booth, Coating System, Spray Booth, Spray Enclosure, Spray Gun, Spray System, Spray/Bake Booth, Enclosure, Roll Coating Paint Station, Gel Coating, Resin Applications, Adhesives
CSH	Crushing/Screening/Handling	Crusher, Screener, Grinder, Material Handling Unit, Conveyor, Conveyor Transfer Point, Mill, Pulverizer
CTW	Cooling Tower	Cooling Tower
DIS	Distillation Unit	Distillation Unit
DRY	Dry Cleaning	Dry Cleaner Vapor Control Unit, Dry to Dry Cleaning Machine
EGU	Electric Generating Unit	Generators (Used for electrical generation sale), Engines (Used for electrical generation sale), Turbines (Used for electrical generation sale), Boilers (Used for electrical generation sale)
ENG	Engine	Generators (Not used for selling electrical generation), Engines (Not used for selling electrical generation), Turbines (Not used for selling electrical generation)
FAT	Deep Fat Frying/ Cooking	Deep Fat Fryer, Tilt Skillet, Fryer, Cooker, Extruder
FLR	Flare	Flare
FOM	Foam Production	Expansion Process, Bead Storage, Pouring, Aging Bag, Pre-Expander, Polystyrene
FUG	Open Air Fugitive Source	Landfills, Settling Ponds, Drying Beds, Haul Roads
GIN	Cotton Gin	Cotton Gin
GRI	Grinder	Grinder

Emissions Processes

- Attached to emission units
 - Used for emission reporting
 - Process description
 - Source Classification Code (SCC)



Process Information

Process ID: PRC001
Process Name: Boiler (Natural Gas)
Company Process Description: Boiler (Natural Gas)
Source Classification Code (SCC): 1-02-006-02
SCC Level 1 Description: 1:External Combustion Boilers
SCC Level 2 Description: 02:Industrial
SCC Level 3 Description: 006:Natural Gas
SCC Level 4 Description: 02:10-100 Million BTU/hr

[SCC reference information](#)

Process Information

Process ID: PRC015
Process Name: Boiler (Diesel Fuel)
Company Process Description: Boiler - Emergency Fuel and Testing
Source Classification Code (SCC): 1-03-005-02
SCC Level 1 Description: 1:External Combustion Boilers
SCC Level 2 Description: 03:Commercial/Institutional
SCC Level 3 Description: 005:Distillate Oil
SCC Level 4 Description: 02:10-100 Million BTU/hr **

[SCC reference information](#)

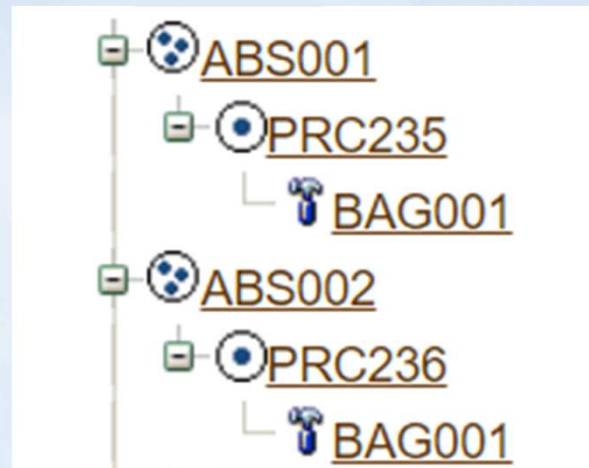
Control Equipment

- 21 different types
- Attached to emissions processes

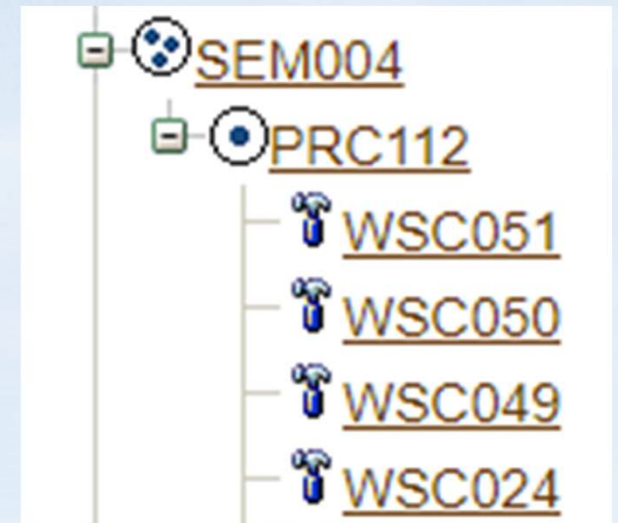
1 process : 1 control



2 process : 1 control



1 process : 2+ controls



Control Equipment

- Capture & control efficiency
 - Performance test
 - Design specifications
- For particulate matter (PM) controls
 - PM primary
 - PM₁₀ primary
 - PM_{2.5} primary

Control Equipment Information

AQD ID: FDS001
Control Equipment Type: Fugitive Dust Suppression
AQD Description: Water Truck

Company Control Equipment ID: 87654
Company Control Equipment Description: Water Truck

Operating Status: Operating
Initial Installation Date: 7/19/2015
Manufacturer Name: Model Name and Number:

Control Equipment Type Specific Information

Suppressant Agent Type: Water
Method of Application: Water Truck

Application Rate - specify units: 500 gallons
Application Frequency - specify units: daily

Pollutants Controlled

Explanation

*You must specify at least one pollutant in the Pollutants Controlled table

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
PM Primary (includes filterables > 10 microns + condensibles)	90	90	100	90
PM10 Primary (includes filterables + condensibles)	90	90	100	90
PM2.5 Primary (includes filterables + condensibles)	90	90	100	90

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Edit Delete Create Cloned Control Equipment

Create And Associate Subsequent Control Equipment Create And Associate Release Point

Associate Existing Subsequent Control Equipment Associate Existing Release Point

Disassociate Subsequent Control Equipment Disassociate Release Point

Release Points

- Required for facilities that emit 10 tons (or more) per year of any pollutant
- Three types
 - Vertical
 - Horizontal
 - Fugitive
- Controlled emissions process
 - Associate release point with control equipment
- Uncontrolled emission processes
 - Associate with emissions process

Number of Employees in 2021

Expand Facility Tree

F006332

COT001

COT002

CSH001

CSH002

CSH003

CSH004

CSH005

CSH006

CSH007

CSH008

CSH009

CSH010

FUG001

GIN001

MAT001

MAT002

SVC001

Disassociated CEs

BAG001

Facility Information

Facility ID: F006332

Facility Name: AQ Production Validation

Facility Description: Record created for validation of production environment.

Facility Class: Minor

Facility Type: Other (Unknown)

Associated Monitor

Group ID:

Operating Status: Operating

AFS:

Number of Employees:

Department:

Annual Administrative Fee

Facility does not have an active permit or has multiple active permits

Next Annual Administrative Fee

Assessment Date:

Fee Table:

Source Category:

General Permit Type:

Location

ID	Physical Address	City	County	Lat/Long	Parcel Number	PLSS	Effective Date
29267	300 E Indian School Rd	Phoenix	Maricopa	33.49862/-112.07034	155-25-001S	S20-T2N-R3E	9/2/2019

Printable view Export to excel

NAICS

111991 Sugar Beet Farming

Add NAICS Printable view Export to excel

NAICS reference information

Edit Validate Submit Download/Print Detail Print Facility Tree

Create Emissions Unit Create Control Equipment Create Release Point

Validate (Do Not Submit)

Task - Facility Inventory Change >

Information
Validation Successful

Facility Detail

Facility ID: F006332 Facility Name: AQ Production Validation County: Maricopa Version Start Date: 3/9/2020
Facility Type: Other (Unknown) Company Name: AQ Production Validation Version End Date: Current

Expand Facility Tree

- F006332
 - COT001
 - COT002
 - CSH001
 - CSH002
 - CSH003
 - CSH004
 - CSH005
 - CSH006
 - CSH007
 - CSH008
 - CSH009
 - CSH010
 - FUG001
 - GIN001
 - MAT001
 - MAT002
 - SVC001
 - Disassociated CEs
 - BAG001

Facility Information

Facility ID: F006332
Facility Name: AQ Production Validation
Facility Description: Record created for validation of production environment.

Facility Class: Minor
Facility Type: Other (Unknown)

Associated Monitor Group ID:
Operating Status: Operating AFS:
Number of Employees:
Department:

Annual Administrative Fee

Facility does not have an active permit or has multiple active permits

Next Annual Administrative Fee Assessment Date:
Fee Table:
Source Category:
General Permit Type:

Location

ID	Physical Address	City	County	Lat/Long	Parcel Number	PLSS	Effective Date	Move Out Date
29267	300 E Indian School Rd	Phoenix	Maricopa	33.49862/-112.07034	155-25-001S	S20-T2N-R3E	9/2/2019	

Printable view Export to excel

NAICS

NAICS
111991 Sugar Beet Farming

Add NAICS Printable view Export to excel

NAICS reference information

Edit **Validate** ~~Submit~~ Download/Print Detail Print Facility Tree
Create Emissions Unit Create Control Equipment Create Release Point

Correct Errors

Severity	EU ID	Message
ERROR		Control Equipment [FRT001]: does not have any controlled pollutant
ERROR		Control Equipment [FRT004]: does not have any controlled pollutant
ERROR		Control Equipment [FRT005]: does not have any controlled pollutant
ERROR		Control Equipment [FRT007]: does not have any controlled pollutant
ERROR		Control Equipment [FRT009]: does not have any controlled pollutant
Printable view Export to excel		

Close

- Click error message
- Correct error
- Click save
- Validate again

Questions



Task 3

- Emissions inventory
 - Exclude emission units
 - Did not operate
 - Less than reporting requirement
 - Reported under another EU
 - Report emissions for each process
 - Operating schedule
 - Throughput
 - Seasonal percentages
 - Emission factors
 - Validate emissions inventory

Exclude Emission Units

Version 11.0 | Build ID: 24.8.0

Welcome Uebelherr

Facility Selecto

IMPACT Home

Task - Facility Contact Change

Task - Facility Inventory Change

Task - Emissions Inventory for 201

Emissions Inventory Detail

Task - Emissions Inventory for 2019 (EI0000025) >

Emissions Inventory Detail

Facility ID: F006335
Facility Name: AQ Test
Content Type: Annual

Emissions Inventory ID: EI0000025
Submitted: No
Reporting Year: 2019

Completed Date:
Reporting State: Not Filed
Generated From Imported File: No

⚠ EI0000025

⚠ BOL001 - 0Ton

⚠ ENG001 - 0Ton

Emissions Inventory Summary

▼ Explanation

- Use the Exclude/Include Emissions Units button to indicate which emissions units:
 - Did not operate at all during the year
 - Emitted less than the reporting requirement
 - Do require detailed emissions inventory reporting
- For each Emissions Process that requires detailed emissions inventory reporting, navigate to that Process and provide the necessary information
- Attach any files needed to support the reported emissions

Regulatory Requirement(s): Triennial Non-Title V Program

▼ Facility Emissions

Criteria Air Pollutants/Other		Emissions Reported		
Pollutant		Fugitive Amount	Stack Amount	Total Units
<div>Printable view</div> <div>Export to excel</div>				

The following information was developed using {Arizona} DEQ-generated pollutant emission calculations. The values may be provided to USEPA by the {Arizona} DEQ. You may modify these {Arizona} DEQ-generated emission calculations if you have more accurate information.

Hazardous Air Pollutants/Greenhouse Gases/Other		Emissions Reported		
Pollutant		Fugitive Amount	Stack Amount	Total Units
<div>Printable view</div> <div>Export to excel</div>				

▼ Attachments

Attachment ID	Attachment Type	Description	Trade Secret Document	Trade Secret Justification	Uploaded By	Upload Date
<div>Add</div> <div>Printable view</div> <div>Export to excel</div>						

To Delete the attachment, or to Edit attachment description, click in the Attachment ID column.

Data Entry Wizard

Exclude/Include Emissions Units

Validate

Associate with Different Facility Inventory

Download/Print

Exclude Emission Units

- Did not operate
- Less than reporting requirements

STZ001	999	<input type="checkbox"/>	<input type="radio"/> Less Than Reporting Requirement <input checked="" type="radio"/> Did Not Operate <input type="radio"/> Reported Under Another EU
TNK001	307629	<input type="checkbox"/>	<input checked="" type="radio"/> Less Than Reporting Requirement <input type="radio"/> Did Not Operate <input type="radio"/> Reported Under Another EU

[Printable view](#) [Export to excel](#)

Less Than Reporting Requirements

- Welding
- Soil remediation
- Acetone use
- Motor vehicle emissions
- Emissions from storage of diesel fuel or Jet A fuel
 - In underground storage tanks (any size)
 - In above ground storage tanks (if throughput is less than 17,000,000 gallons/year)

Less Than Reporting Requirements

- Routine pesticide usage, housekeeping cleaners, and routine maintenance painting at your facility
- Materials with usage less than 15 gallons or 100 pounds per year.
 - Group all similar materials together before determining if reporting is required

Exclude Emission Units

Reported under another EU

<input type="button" value="Mark All 'Detailed Emissions Reporting'"/> <input type="button" value="Mark All 'Less Than Reporting Requirement'"/> <input type="button" value="Mark All 'Did Not Operate'"/>			
Emission Unit	Company Equipment ID	Detailed Emissions	Exclude Detailed Emissions Reporting
BOL001	307622	<input checked="" type="checkbox"/>	<input type="radio"/> Less Than Reporting Requirement <input type="radio"/> Did Not Operate <input type="radio"/> Reported Under Another EU
BOL002	307623	<input type="checkbox"/>	<input type="radio"/> Less Than Reporting Requirement <input type="radio"/> Did Not Operate <input checked="" type="radio"/> Reported Under Another EU BOL001 ▼
BOL003	307624	<input type="checkbox"/>	<input type="radio"/> Less Than Reporting Requirement <input type="radio"/> Did Not Operate <input checked="" type="radio"/> Reported Under Another EU BOL001 ▼
BOL004	307625	<input type="checkbox"/>	<input type="radio"/> Less Than Reporting Requirement <input type="radio"/> Did Not Operate <input checked="" type="radio"/> Reported Under Another EU BOL001 ▼
CTW001	307620	<input checked="" type="checkbox"/>	<input type="radio"/> Less Than Reporting Requirement <input type="radio"/> Did Not Operate <input type="radio"/> Reported Under Another EU
CTW002	307620	<input type="checkbox"/>	<input type="radio"/> Less Than Reporting Requirement <input type="radio"/> Did Not Operate <input checked="" type="radio"/> Reported Under Another EU CTW001 ▼
CTW003	307620	<input type="checkbox"/>	<input type="radio"/> Less Than Reporting Requirement <input type="radio"/> Did Not Operate <input checked="" type="radio"/> Reported Under Another EU CTW001 ▼
CTW004	307620	<input type="checkbox"/>	<input type="radio"/> Less Than Reporting Requirement <input type="radio"/> Did Not Operate <input checked="" type="radio"/> Reported Under Another EU CTW001 ▼
CTW005	307621	<input type="checkbox"/>	<input type="radio"/> Less Than Reporting Requirement <input type="radio"/> Did Not Operate <input checked="" type="radio"/> Reported Under Another EU CTW001 ▼
CTW006	307621	<input type="checkbox"/>	<input type="radio"/> Less Than Reporting Requirement <input type="radio"/> Did Not Operate <input checked="" type="radio"/> Reported Under Another EU CTW001 ▼

Reported Under Another EU

- Aggregate when specific throughput is not known for each EU
 - Boilers and water heaters
 - Silos storing the same material
 - Multiple similar gasoline storage tanks
 - Underground storage tanks
 - Aboveground storage tanks
- Aggregate when there are many identical EUs
 - Conveyors, crushers, screens, etc.
- Aggregated emission units must have the same throughput material and emission factors

What to Report

Emissions from processes that emit:	
PM Primary	Particulate matter
PM ₁₀ Primary	Particulate matter less than 10 microns in diameter
PM _{2.5} Primary	Particulate matter less than 2.5 microns in diameter
CO	Carbon monoxide
NO _x	Nitrogen oxides
SO _x	Sulfur oxides
VOC	Volatile organic compounds
NH _x	Ammonia
HAPs	Hazardous air pollutants

Throughput & Operating Hours

EI0016679

BGM001 - 0Ton

BOL001 - 0Ton

PRC003

SVU001 - 0Ton

PRC002

Process & Emissions Detail

PRC003: Source Classification Code (SCC) is 1-03

SCC Level 1: 1:External Combustion Boilers

SCC Level 2: 03:Commercial/Institutional

SCC Level 3: 006:Natural Gas

SCC Level 4: 02:10-100 Million BTU/hr

Process Name: Boilers (Combined)

Company Process Description: Natural Gas Usage

Material Information, Annual Average Operating Schedule & Throughput Percent

Maximum Hours Per Day: 24

Maximum Days Per Week: 7

Maximum Weeks Per Year: 52

Actual Hours:

Winter (Jan-Feb, Dec)%: 25

Spring (Mar-May)%: 25

Summer (Jun-Aug)%: 25

Fall (Sep-Nov)%: 25

Material	Action	Throughput	Confidential	Units
Natural Gas Burned	pending	<input type="checkbox"/>		MILLION CUBIC FEET

Explanation

Variable Amount in Natural Gas	Units & Meaning
HCg	pending Gas Heat Content (Btu/Cubic Feet)

Explanation

To complete emissions reporting for this process, you have to provide values above for **Schedule**, **Season Percents** and **Material Throughput** in the units specified by **Units**. If there is a choice of more than one **Material**, you must select which is most appropriate, otherwise no action is needed on your part. The word pending appears each place a value is needed.

A variable table appears for this process for the reason below and you must provide a value for **Amount** as defined in the **Units & Meaning** column: The Maricopa County auto-calculate factor emissions method is used for a pollutant and it uses the FIRE database which uses the variable.

The word pending appears each place a value for Amount is needed. For example, if the Sulfur Content (Btu/Lb)) is 12,540, that means there are 12,540 BTUs per pound of fuel.

Edit Material/Schedule/Seasons

If data was copied from 2020, this screen will be prefilled.

Update the throughput, operating schedule, and seasonal percentages to reflect 2021 operations.

Throughput & Operating Hours

EI0016679

- BGM001 - 0Ton
- BOL001 - 0Ton
 - PRC003
- SVU001 - 0Ton
 - PRC002

Process & Emissions Detail

▼ PRC003: Source Classification Code (SCC) is 1-03-006-02

SCC Level 1: 1:External Combustion Boilers
SCC Level 2: 03:Commercial/Institutional
SCC Level 3: 006:Natural Gas
SCC Level 4: 02:10-100 Million BTU/hr

Process Name: Boilers (Combined)
Company Process Description: Natural Gas Usage

▼ Material Information, Annual Average Operating Schedule & Throughput Percent

Maximum Hours Per Day: 24
Maximum Days Per Week: 7
Maximum Weeks Per Year: 52
Actual Hours:

Material	Action	Throughput	Confidential	Units
Natural Gas Burned	pending	<input type="checkbox"/>		MILLION CUBIC FEET

▼ Explanation

To complete emissions reporting for this process, you have to provide values above for **Schedule**, **Season Percents** and **Material Throughput** in the units specified by **Units**. If there is a choice of more than one **Material**, you must select which is most appropriate, otherwise no action is needed on your part. The word pending appears each place a value is needed.

Winter (Jan-Feb, Dec)%: 25
Spring (Mar-May)%: 25
Summer (Jun-Aug)%: 25
Fall (Sep-Nov)%: 25

Variable Amount in Natural Gas Units & Meaning

HCg	pending	Gas Heat Content (Btu/Cubic Feet)
-----	---------	-----------------------------------


▼ Explanation

A variable table appears for this process for the reason below and you must provide a **Amount** as defined in the **Units & Meaning** column: The Maricopa County auto-calculate factor emissions method is used for a pollutant and it uses the FIRE database which uses the variable.

The word pending appears each place a value for Amount is needed. For example, if the Sulfur Content (% Sulfur content) is 7.5, that means the **Material** contains 7.5% sulfur. If the Gas Heat Content (Btu/Lb) is 12,540, that means there are 12,540 BTUs per pound.

Edit Material/Schedule/Seasons

- Click the triangle to see the process description and SCC definition.
- Click Edit Material / Schedule / Seasons

Maricopa County
AIR QUALITY
DEPARTMENT

Throughput & Operating Hours

Process & Emissions Detail

▶ PRC003: Source Classification Code (SCC) is 1-03-006-02

▼ Material Information, Annual Average Operating Schedule & Throughput Percent

Maximum Hours Per Day:

Maximum Days Per Week:

Maximum Weeks Per Year:

* Actual Hours:

* Winter (Jan-Feb, Dec)%:

* Spring (Mar-May)%:

* Summer (Jun-Aug)%:

* Fall (Sep-Nov)%:

Material	Action	Throughput	Confidential	Units
Natural Gas Burned	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	MILLION CUBIC FEET

▼ Explanation

To complete emissions reporting for this process, you have to provide values above for **Schedule**, **Season Percents** and **Material Throughput** in the units specified by **Units**. If there is a choice of more than one **Material**, you must select which is most appropriate, otherwise no action is needed on your part. The word pending appears each place a value is needed.

Variable	Amount in Natural Gas	Units & Meaning
HCg	<input type="text"/>	Gas Heat Content (Btu/Cubic Feet)

▼ Explanation

A variable table appears for this process for the reason below and you must enter in the variable **Amount** as defined in the **Units & Meaning** column: The Maricopa County Air Quality Department auto-calculate factor emissions method is used for a pollutant and it uses a factor formula from the FIRE database which uses the variable.

The word pending appears each place a value for Amount is needed. For example, if the Amount for **S** (% Sulfur content) is 7.5, that means the **Material** contains 7.5% sulfur and if **HCS** (Solid Heat Content (Btu/Lb)) is 12,540, that means there are 12,540 BTUs per pound of **Material**.

Throughput & Operating Hours

Process & Emissions Detail

▶ PRC003: Source Classification Code (SCC) is 1-03-006-02

▼ Material Information, Annual Average Operating Schedule & Throughput Percent

Maximum Hours Per Day:
Maximum Days Per Week:
Maximum Weeks Per Year:
* Actual Hours:

Material	Action	Throughput	Confidential	Units
Natural Gas Burned	<input type="text"/>	<input type="checkbox"/>		MILLION CUBIC FEET

▼ Explanation

- Pay attention to throughput units.
- Enter any required variables.
- If the units or variables don't make sense for the process, the SCC code assigned to the process may be incorrect.
- SCC codes can be changed on the Task – Facility Inventory Change tab.
- Complete data entry and click save.

* Winter (Jan-Feb, Dec)%:
* Spring (Mar-May)%:
* Summer (Jun-Aug)%:
* Fall (Sep-Nov)%:

Variable	Amount in Natural Gas	Units & Meaning
HCg	<input type="text"/>	Gas Heat Content (Btu/Cubic Feet)

▼ Explanation

A variable table appears for this process for the reason below and you must enter in the variable **Amount** as defined in the **Units & Meaning** column: The Maricopa County Air Quality Department auto-calculate factor emissions method is used for a pollutant and it uses a factor formula from the FIRE database which uses the variable.

The word pending appears each place a value for Amount is needed. For example, if the Amount for S (% Sulfur content) is 7.5, that means the **Material** contains 7.5% sulfur and if HCs (Solid Heat Content (Btu/Lb)) is 12,540, that means there are 12,540 BTUs per pound of **Material**.

Report Emissions

Criteria Air Pollutants/Other			Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time-based Factor (LBS/Hour)	Emissions Reported			
Pollutant	Method Used	Hours Uncontrolled			Fugitive Amount	Stack Amount	Total	Units Explanation
PM Primary (includes filterables > 10 microns + condensibles)	Throughput-based factor	0	7.6		0	0.01444	0.01444	TCNS
PM10 Primary (includes filterables + condensibles)	Throughput-based factor	0	7.6		0	0.01444	0.01444	TCNS
PM2.5 Primary (includes filterables + condensibles)	Throughput-based factor	0	7.6		0	0.01444	0.01444	TCNS
CO - Carbon Monoxide	Throughput-based factor	0	84		0	0.1596	0.1596	TCNS
NOx - Nitrogen Oxides	Throughput-based factor	0	100		0	0.019	0.019	TCNS
SO2 - Sulfur Dioxide	Throughput-based factor	0	0.6		0	0.00114	0.00114	TCNS
VOC - Volatile Organic Compounds	Throughput-based factor (pending)	0	pending					TCNS
Ammonia	Throughput-based factor	0	0.49		0	0.31E-04	0.31E-04	TCNS

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Generation was developed using (Airsona) DEC-generated pollutant emission calculations. The values may be provided to USEPA by the (Airsona) DEC. You may modify these (Airsona) DEC-generated emission calculations if you have more information.

Hazardous Air Pollutants/Greenhouse Gases/Other			Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time-based Factor (LBS/Hour)	Emissions Reported			
Pollutant	Method Used	Hours Uncontrolled			Fugitive Amount	Stack Amount	Total	Units Explanation
Carbon Dioxide	Throughput-based factor	0	120.000		0	228	228	TCNS
Methane	Throughput-based factor	0	2.3		0	0.00437	0.00437	TCNS
Nitrous Oxide	Throughput-based factor	0	2.2		0	0.00418	0.00418	TCNS
Aceonaphthene	Throughput-based factor	0	9E-07		0	1.71E-09	1.71E-09	TCNS
Aceonaphthylene	Throughput-based factor	0	9E-07		0	1.71E-09	1.71E-09	TCNS
Acetaldehyde	Throughput-based factor (pending)	0	pending					TCNS
Azobenzene	Throughput-based factor	0	0.01836		0	3.4884E-05	3.4884E-05	TCNS
Anthracene	Throughput-based factor	0	1.2E-06		0	2.28E-09	2.28E-09	TCNS
Arsenic	Throughput-based factor	0	2E-04		0	3.8E-07	3.8E-07	TCNS
Benz[a]Anthracene	Throughput-based factor	0	9E-07		0	1.71E-09	1.71E-09	TCNS
Benzene	Throughput-based factor	0	0.0021		0	3.99E-06	3.99E-06	TCNS
Benz[a]Pyrene	Throughput-based factor	0	6E-07		0	1.14E-09	1.14E-09	TCNS
Benz[b]Fluoranthene	Throughput-based factor	0	9E-07		0	1.71E-09	1.71E-09	TCNS
Benz[ghi]Perylene	Throughput-based factor	0	6E-07		0	1.14E-09	1.14E-09	TCNS
Benz[k]Fluoranthene	Throughput-based factor	0	9E-07		0	1.71E-09	1.71E-09	TCNS
Beryllium	Throughput-based factor	0	6E-06		0	1.14E-08	1.14E-08	TCNS
Cadmium	Throughput-based factor	0	0.0011		0	2.09E-06	2.09E-06	TCNS
Chromium	Throughput-based factor	0	0.0014		0	2.66E-06	2.66E-06	TCNS
Chrysene	Throughput-based factor	0	9E-07		0	1.71E-09	1.71E-09	TCNS
Cobalt	Throughput-based factor	0	8.4E-05		0	1.596E-07	1.596E-07	TCNS
Dibenz[a,h]Anthracene	Throughput-based factor	0	6E-07		0	1.14E-09	1.14E-09	TCNS
Dimethylbenz[a]Anthracene, 7,12-	Throughput-based factor	0	8E-06		0	1.52E-08	1.52E-08	TCNS
Fluoranthene	Throughput-based factor	0	3E-06		0	5.7E-09	5.7E-09	TCNS
Fluorene	Throughput-based factor	0	2.8E-06		0	5.32E-09	5.32E-09	TCNS
Formaldehyde	Throughput-based factor	0	0.075		0	1.425E-04	1.425E-04	TCNS
Hexane, N-	Throughput-based factor	0	1.8		0	0.00342	0.00342	TCNS
Indeno[1,2,3-cd]Pyrene	Throughput-based factor	0	9E-07		0	1.71E-09	1.71E-09	TCNS
MN - Manganese	Throughput-based factor	0	3.8E-04		0	7.22E-07	7.22E-07	TCNS
Mercury, as Hg, Alkyl & Aryl CMFHS, Elemental & Inorganic Forms	Throughput-based factor	0	2.6E-04		0	4.94E-07	4.94E-07	TCNS
Methylnaphthalene, 3-	Throughput-based factor	0	9E-07		0	1.71E-09	1.71E-09	TCNS
Methylnaphthalene, 2-	Throughput-based factor	0	2.4E-05		0	4.56E-08	4.56E-08	TCNS
Naphthalene	Throughput-based factor	0	6.1E-04		0	1.159E-06	1.159E-06	TCNS
Nickel	Throughput-based factor	0	0.0021		0	3.99E-06	3.99E-06	TCNS
Pb - Lead	Throughput-based factor	0	5E-04		0	9.5E-07	9.5E-07	TCNS
Phenanthrene	Throughput-based factor	0	1.7E-05		0	3.23E-08	3.23E-08	TCNS
Polycyclic Organic Matter	Throughput-based factor	0	6.6198E-04		0	1.25776E-06	1.25776E-06	TCNS
Pyrene	Throughput-based factor	0	5E-06		0	9.5E-09	9.5E-09	TCNS
Selenium	Throughput-based factor	0	1.2E-05		0	2.28E-08	2.28E-08	TCNS
Toluene	Throughput-based factor	0	0.0034		0	6.46E-06	6.46E-06	TCNS

Printable view Export excel

Edit emissions

Polycyclic Organic Matter	Available factors: 1 Throughput-based factor	0	6.6198E-04
Pyrene	Available factors: 1 Throughput-based factor	0	5E-06
Selenium	Available factors: 1 Throughput-based factor	0	1.2E-05
Toluene	Available factors: 1 Throughput-based factor	0	0.0034

Printable view

Export to excel

Edit Emissions



What to Report

- Report all Criteria Air Pollutant emissions
 - Enter 0 for pollutants that are not emitted
- Report Hazardous Air Pollutant emissions when
 - Emission factors are provided in the AQD Online Portal
 - Facility is subject to a federal standard for HAPs
 - Permit contains HAP emission limit(s)

Criteria Pollutants and Precursors

Criteria Air Pollutants/Other		Hours Uncontrolled	Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time- based Factor (LBS/Hour)	Emissions Reported			Units	Explanation
Pollutant	Method Used				Fugitive Amount	Stack Amount	Total		
PM Primary (includes filterables > 10 microns + condensibles)	Throughput-based factor	0	pending					TONS	
PM10 Primary (includes filterables + condensibles)	Throughput-based factor	0	pending					TONS	
PM2.5 Primary (includes filterables + condensibles)	Throughput-based factor	0	pending					TONS	
CO - Carbon Monoxide	Throughput-based factor Available factors: 1	0	130					TONS	
NOx - Nitrogen Oxides	Throughput-based factor Available factors: 1	0	604					TONS	
SO2 - Sulfur Dioxide	Throughput-based factor Available factors: 1	0	39.7					TONS	
VOC - Volatile Organic Compounds	Throughput-based factor Available factors: 1	0	49.3					TONS	
Ammonia	Throughput-based factor	0	pending					TONS	

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Common HAPs

- Methylene chloride (dichloromethane)
- Perchloroethylene
- 111-Trichloroethane (111-TCA or methyl chloroform)
- Hydrochloric acid
- Hydrofluoric acid

Hazardous Air Pollutants

Hazardous Air Pollutants/Greenhouse Gases/Other			Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time-based Factor (LBS/Hour)	Emissions Reported				
Pollutant	Method Used	Hours Uncontrolled			Fugitive Amount	Stack Amount	Total	Units	Explanation
Carbon Dioxide	Throughput-based factor Available factors: 1	0	22,600					TONS	
Acenaphthene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Acenaphthylene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Acetaldehyde	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Acrolein	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Anthracene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Benz[A]Anthracene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Benzene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Benzo[A]Pyrene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Benzo[B]Fluoranthene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Benzo[G,H,I]Perylene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Benzo[K]Fluoranthene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Butadiene, 1,3-	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Chrysene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Dibenzo[A,H]Anthracene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Ethyl Benzene	Throughput-based factor Available factors: 1	0	0.00307					TONS	
Fluoranthene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Fluorene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Formaldehyde	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Indeno[1,2,3-C,D]Pyrene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Naphthalene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
PAH, 16-	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Phenanthrene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Pyrene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Toluene	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	
Xylenes (Isomers and Mixture)	Throughput-based factor Available factors: 1	0	pending variable amount					TONS	

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Reporting Emissions

- Click “Edit Emissions”
- Select calculation method for each pollutant

▼ Process Emissions

Criteria Air Pollutants/Other	
Pollutant	Method Used
PM Primary (includes filterables > 10 microns + condensibles)	<input type="text"/>
PM10 Primary (includes filterables + condensibles)	<input type="text"/>
PM2.5 Primary (includes filterables + condensibles)	<input type="text"/>
CO - Carbon Monoxide	<input type="text"/>
NOx - Nitrogen Oxides	<input type="text"/>
SO2 - Sulfur Dioxide	<input type="text"/>
VOC - Volatile Organic Compounds	<input type="text"/>
Ammonia	<input type="text"/>

Hierarchy of Preferred Emission Calculation Methods

To develop your annual emissions inventory, the most accurate method for calculating actual emissions must be used. The "hierarchy of preferred methods" on the following slides describes, in order, the preferred methods for calculating emission estimates.

(Rule 280, Section 304.1)

Hierarchy of Emission Calculation Methods

Whenever available, emissions estimates should be calculated from Continuous Emissions Monitoring Systems (CEMS) certified under 40 CFR 75, Subpart C or data that has been quality-assured pursuant to of 40 CFR 60, Appendix F .

Reporting CEMS Emissions

- Method: **Time-based factor - CEM**
- Calculate Time Based Emission Factor
- Example – EGU001
 - CEMS measured 50,839 pounds of NOX emissions
 - Total operating hours = 4,131
 - $50,839 / 4,131 = 12.31$ pounds/hour

Reporting CEMS Emissions

▼ Process Emissions

Criteria Air Pollutants/Other			Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time-based Factor (LBS/Hour)
Pollutant	Method Used	Hours Uncontrolled		
PM Primary (includes filterables > 10 microns + condensibles)	<input type="text" value=""/>		7.6	
PM10 Primary (includes filterables + condensibles)	<input type="text" value=""/>		7.6	
PM2.5 Primary (includes filterables + condensibles)	<input type="text" value=""/>		7.6	
CO - Carbon Monoxide	<input type="text" value=""/>		84	
NOx - Nitrogen Oxides	Time-based factor - CEM <input type="text" value=""/>	<input type="text" value="0"/>	<input type="text" value="100"/>	<input type="text" value="12.31"/>
SO2 - Sulfur Dioxide	<input type="text" value=""/>		0.6	
VOC - Volatile Organic Compounds	<input type="text" value=""/>		5.5	
Ammonia	<input type="text" value=""/>		0.49	

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Hierarchy of Emission Calculation Methods

1. CEMS Data
2. When sufficient data obtained using the methods described in (1) is not available, emissions estimates should be calculated from source performance tests conducted in accordance with Maricopa County Rule 270 (Performance Tests).

Performance Test Emission Factors

- Method: **Time-based factor – Stack Test**
- Refer to the performance test determination letter from MCAQD
 - Time-based EF = **3.6 lb/hr**
 - Throughput based EF = 2.0349 lb/MMCF
 - Convert to lb/hr
 - Total operating hours = 4,131
 - Total fuel combustion = 6,781 MMCF
 - $(2.0349 \times 6,781) / 4,131 = \mathbf{3.34 \text{ lb/hour}}$

Performance Test Emission Factors

▼ Process Emissions

Criteria Air Pollutants/Other			Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time-based Factor (LBS/Hour)
Pollutant	Method Used	Hours Uncontrolled		
PM Primary (includes filterables > 10 microns + condensibles)	Time-based factor - Stack Test ▼	8760	7.6	3.6
PM10 Primary (includes filterables + condensibles)	▼		7.6	
PM2.5 Primary (includes filterables + condensibles)	▼		7.6	
CO - Carbon Monoxide	▼		84	
NOx - Nitrogen Oxides	Time-based factor - CEM ▼	0	100	12.31
SO2 - Sulfur Dioxide	▼		0.6	
VOC - Volatile Organic Compounds	▼			
Ammonia	▼		0.49	

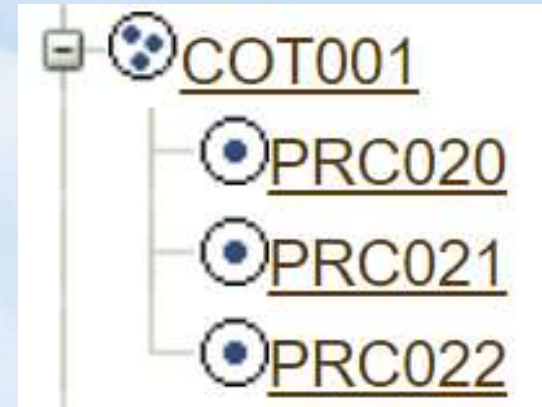
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Hierarchy of Emission Calculation Methods

1. CEMS Data
2. Performance Tests
3. When sufficient data obtained using the methods described in (1) or (2) is not available, emissions estimates should be calculated by a material mass balance using engineering knowledge of the process.

Material Mass Balance

- Frequently used for solvents, paints, and other evaporative processes
- Facility Tree
 - One process for each SCC



Process Information

Process ID: PRC020
Process Name: Paints
Company Process Description:
Source Classification Code (SCC): 4-02-002-01
SCC Level 1 Description: 4:Petroleum and Solvent Evaporation
SCC Level 2 Description: 02:Surface Coating Operations
SCC Level 3 Description: 002:Surface Coating Application - General
SCC Level 4 Description: 01:Paint: Water-base

Process Information

Process ID: PRC022
Process Name:
Company Process Description:
Source Classification Code (SCC): 4-02-025-99
SCC Level 1 Description: 4:Petroleum and Solvent Evaporation
SCC Level 2 Description: 02:Surface Coating Operations
SCC Level 3 Description: 025:Miscellaneous Metal Parts
SCC Level 4 Description: 99:Other Not Classified

Process Information

Process ID: PRC021
Process Name:
Company Process Description:
Source Classification Code (SCC): 4-02-007-10
SCC Level 1 Description: 4:Petroleum and Solvent Evaporation
SCC Level 2 Description: 02:Surface Coating Operations
SCC Level 3 Description: 007:Surface Coating Application - General
SCC Level 4 Description: 10:Adhesive: General

Material Usage Calculation Tool

- Download tool
 - Maricopa.gov/5628
- List materials, type, throughput units, and usage
- Identify process ID for each material

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R		
1	Year:	2018																		
2	Process ID	Name/ Description	Material type	Units	Pollutant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec/Year	Annual Total		
3	PRC020	Water based primer	Paint	gal	VOC			50.0					50.0					100.0		
4	PRC020	Water based topcoat	Paint	gal	VOC					50.0								50.0		
5	PRC021	Adhesive A225	Adhesive	gal	VOC		50.0											50.0		
6	PRC021	Adhesive A226	Adhesive	gal	VOC		50.0											50.0		
7	PRC022	Adhesive Primer	Adhesive Prim	gal	VOC		50.0											50.0		
8	PRC022	Metal Primer	Primer	gal	VOC		100.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	600.0		
9	PRC022	Metal topcoat	Paint	gal	VOC		100.0	100.0		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	600.0		
		README	1) Usage Records	2) Emission Calcs	3) Facility Info	Reference sheet														

Material Usage Calculation Tool

- Enter the emission factor from the safety data sheet or technical data sheet
- Enter the capture and control efficiency

	A	C	D	E	F	G	H	I	J	K	L
	Process ID	Material type	Annual Amount of Material Used	Units	Pollutant	EF	Units	Capture Efficiency	Control Efficiency	Fugitive Amount (lb)	Stack Amount (lb)
1	PRC020	Paint	100.0	gal	VOC	1.2	lb/gal	0.0%	0.0%	120.0	0.0
2	PRC020	Paint	50.0	gal	VOC	2.1	lb/gal	0.0%	0.0%	105.0	0.0
3	PRC021	Adhesive	50.0	gal	VOC	1.6	lb/gal	0.0%	0.0%	80.0	0.0
4	PRC021	Adhesive	50.0	gal	VOC	1.1	lb/gal	0.0%	0.0%	55.0	0.0
5	PRC022	Adhesive Prim	50.0	gal	VOC	0.8	lb/gal	0.0%	0.0%	40.0	0.0
6	PRC022	Primer	600.0	gal	VOC	1.8	lb/gal	0.0%	0.0%	1080.0	0.0
7	PRC022	Paint	600.0	gal	VOC	1.5	lb/gal	0.0%	0.0%	900.0	0.0
8											
<div> ◀ ▶ README 1) Usage Records 2) Emission Calcs 3) Facility Info Reference sheet ⊕ </div>											

Material Usage Calculation Tool

- Refresh the pivot table

	A	B	C	D	E	F	G
1	INSTRUCTIONS: Right click within the table below and select Refresh from the menu to update data.						
2							
3	Sum of Actual Emissions (lbs)	Pollutants (lbs)					
4	Process ID	VOC					
5	PRC020	225					
6	PRC021	135					
7	PRC022	2020					
	←	→	README	1) Usage Records	2) Emission Calcs	3) Facility Info	Reference sheet

Reporting Emissions

- Method: Emissions

Criteria Air Pollutants/Other			Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time-based Factor (LBS/Hour)	Emissions Reported				
Pollutant	Method Used	Hours Uncontrolled			Fugitive Amount	Stack Amount	Total	Units	Explanation
PM Primary (includes filterables > 10 microns + condensibles)	Throughput-based factor ▼	0	0					TONS ▼	add
PM10 Primary (includes filterables + condensibles)	Throughput-based factor ▼	0	0					TONS ▼	add
PM2.5 Primary (includes filterables + condensibles)	Throughput-based factor ▼	0	0					TONS ▼	add
CO - Carbon Monoxide	Throughput-based factor ▼	0	0					TONS ▼	add
NOx - Nitrogen Oxides	Throughput-based factor ▼	0	0					TONS ▼	add
SO2 - Sulfur Dioxide	Throughput-based factor ▼	0	0					TONS ▼	add
VOC - Volatile Organic Compounds	Emissions ▼				225	0		TONS ▼	add
Ammonia	Throughput-based factor ▼	0	0					TONS ▼	add

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Information was developed using {Arizona} DEQ-generated pollutant emission calculations. The values may be provided to USEPA by the {Arizona} DEQ. You may modify these {Arizona} DEQ-generated emission calculations if you have more accurate information.

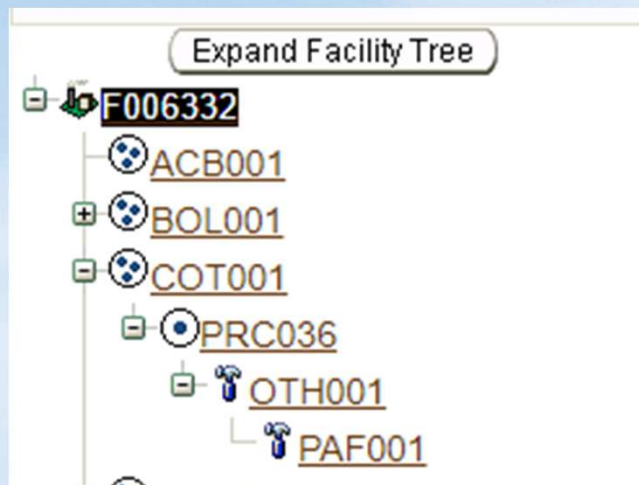
Hazardous Air Pollutants/Greenhouse Gases/Other			Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time-based Factor (LBS/Hour)	Emissions Reported				
Select Pollutant	Method Used	Hours Uncontrolled			Fugitive Amount	Stack Amount	Total	Units	Explanation
<p>Add Emission Delete Selected Emission(s) Printable view Export to excel</p> <p>Save Cancel</p>									

- Attach excel file on the emissions inventory summary page.

Particulate Matter from Coatings

- Control equipment
 - HVLP or equivalent application methods
 - Paint booth filters
- Uncontrolled emission factor
 - Solid content of the material
 - Convert to pounds per throughput unit
- Throughput-based method
 - AQD Online Portal will calculate controlled emissions

Particulate Matter from Coatings



Control Equipment Information

AQD ID:	OTH001
Control Equipment Type:	Other
AQD Description:	HVLP Spray Guns
Company Control Equipment ID:	HVLP
Company Control Equipment Description:	HVLP Spray Guns
Operating Status:	Operating
Initial Installation Date:	
Manufacturer Name:	Model Name and Number:

Control Equipment Type Specific Information

Pollutants Controlled

Explanation

*You must specify at least one pollutant in the Pollutants Controlled table

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
PM Primary (includes filterables > 10 microns + condensibles)	65	65	100	65
PM10 Primary (includes filterables + condensibles)	65	65	100	65
PM2.5 Primary (includes filterables + condensibles)	65	65	100	65

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Control Equipment Information

AQD ID:	PAF001
Control Equipment Type:	Passive Filter
AQD Description:	Spray Booth Filters
Company Control Equipment ID:	SBF
Company Control Equipment Description:	Spray Booth Filters
Operating Status:	Operating
Initial Installation Date:	
Manufacturer Name:	Model Name and Number:

Control Equipment Type Specific Information

Filter Type : Paint Booth Filter
Change Frequency - specify units : Monthly
Inlet Gas Flow Rate (acfm) : 50000
Outlet Gas Flow Rate (acfm) : 50000

Pollutants Controlled

Explanation

*You must specify at least one pollutant in the Pollutants Controlled table

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
PM Primary (includes filterables > 10 microns + condensibles)	98	98	100	98
PM10 Primary (includes filterables + condensibles)	98	98	100	98
PM2.5 Primary (includes filterables + condensibles)	98	98	100	98

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Particulate Matter from Coatings

- Emission Factor = pounds of solids per gallon

Process & Emissions Detail

▶ PRC036: Source Classification Code (SCC) is 4-02-025-01

▼ Material Information, Annual Average Operating Schedule & Throughput Percent

Maximum Hours Per Day: 10

Maximum Days Per Week: 5

Maximum Weeks Per Year: 50

Actual Hours: 1,400.00

Winter (Jan-Feb, Dec)%: 25

Spring (Mar-May)%: 25

Summer (Jun-Aug)%: 25

Fall (Sep-Nov)%: 25

Material	Action	Throughput	Confidential	Units
Coating	Applied	8756	<input type="checkbox"/>	GALLONS
Solvent in Coating Used			<input type="checkbox"/>	TONS

Variable Amount in Coating Units & Meaning

The variables table is empty because there are no variables in the formula associated with the FIRE rows for this process.

▶ Explanation

▶ Explanation

Edit Material/Schedule/Seasons

▼ Process Emissions

Criteria Air Pollutants/Other			Uncontrolled Emissions Factor	Time-based Factor	Emissions Reported				
Pollutant	Method Used	Hours Uncontrolled	(Lbs/Throughput Units)	(LBS/Hour)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PM Primary (includes filterables > 10 microns + condensibles)	Throughput-based factor Uncontrolled factor input by user.	0	4.7		288.072	0	288.072	POUNDS	
PM10 Primary (includes filterables + condensibles)	Throughput-based factor Uncontrolled factor input by user.	0	4.7		288.072	0	288.072	POUNDS	
PM2.5 Primary (includes filterables + condensibles)	Throughput-based factor Uncontrolled factor input by user.	0	4.7		288.072	0	288.072	POUNDS	
CO - Carbon Monoxide	Throughput-based factor	0	pending					TONS	
NOx - Nitrogen Oxides	Throughput-based factor	0	pending					TONS	

Hierarchy of Emission Calculation Methods

1. CEMS Data
2. Performance Tests
3. Material Mass Balance
4. Emissions estimates shall be calculated using emissions factors from EPA Publication No. AP-42 "Compilation of Air Pollutant Emission Factors", Volume I: Stationary Point and Area Sources.

AP-42 Emission Factors

- Method: **Throughput-based factor**
- Verify emission factors that are prepopulated in the AQD Online Portal

Resources

- maricopa.gov/5628
 - Process specific help sheets
 - 2021 SCC Codes and Emission Factors
- Permit technical support document
 - maricopa.gov/5073
- AP-42



Throughput-based Factors

- Use uncontrolled emission factors
- Enter capture and control efficiency

Process Name: Unpaved Roads
Company Process Description: Light Duty Vehicles at 10 mph

▼ Material Information, Annual Average Operating Schedule & Throughput Percent

Maximum Hours Per Day: 24
Maximum Days Per Week: 7
Maximum Weeks Per Year: 52
Actual Hours: 2,500.00

Material Action	Throughput	Confidential	Units
Vehicle Travelled	1650	<input type="checkbox"/>	MILES

Variable
The variable is a process.

► Explanation

Edit Material/Schedule/Season

▼ Process Emissions

Criteria Air Pollutants/Other	Method Used	Hours Uncontrolled	Uncontrolled Emissions Factor (Lbs/Throughput Units) (L)
Pollutant			
PM Primary (includes filterables > 10 microns + condensibles)	Throughput-based factor Uncontrolled factor input by user.	0	0.29
PM10 Primary (includes filterables + condensibles)	Throughput-based factor Uncontrolled factor input by user.	0	0.29
PM2.5 Primary (includes filterables + condensibles)	Throughput-based factor Uncontrolled factor input by user.	0	0.29
CO - Carbon Monoxide	Throughput-based factor Uncontrolled factor input by user.	0	0
NOx - Nitrogen Oxides	Throughput-based factor Uncontrolled factor input by user.	0	0
SO2 - Sulfur Dioxide	Throughput-based factor Uncontrolled factor input by user.	0	0
VOC - Volatile Organic Compounds	Throughput-based factor Uncontrolled factor input by user.	0	0
Ammonia	Throughput-based factor Uncontrolled factor input by user.	0	0

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Control Equipment Information

AQD ID: FDS001
Control Equipment Type: Fugitive Dust Suppression
AQD Description:

Company Control Equipment ID: Water
Company Control Equipment Description: Water truck

Operating Status: Operating
Initial Installation Date:
Manufacturer Name: Model Name and Number:

▼ Control Equipment Type Specific Information

Suppressant Agent Type: Water
Method of Application: Truck

Application Rate - specify units: 5000 gallons per truckload
Application Frequency - specify units: Daily

▼ Pollutants Controlled

► Explanation

*You must specify at least one pollutant in the Pollutants Controlled table

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
PM Primary (includes filterables > 10 microns + condensibles)	90	90	100	90
PM10 Primary (includes filterables + condensibles)	90	90	100	90
PM2.5 Primary (includes filterables + condensibles)	90	90	100	90

Printable view Export to excel

Throughput-based Factors

AQD Online Portal will calculate controlled emissions

Material	Action	Throughput	Confidential	Units
Vehicle	Travelled	1650	<input type="checkbox"/>	MILES

► Explanation

Variable Amount in Vehicle Units & Meaning

The variables table is empty because there are no variables in the formula associated with this process.

► Explanation

Edit Material/Schedule/Seasons

▼ Process Emissions

Criteria Air Pollutants/Other			Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time-based Factor (LBS/Hour)	Emissions Reported				Exp
					Fugitive Amount	Stack Amount	Total	Units	
Pollutant	Method Used	Hours Uncontrolled							
PM Primary (includes filterables > 10 microns + condensibles)	Throughput-based factor Uncontrolled factor input by user.	0	0.29		0.023925	0	0.023925	TONS	
PM10 Primary (includes filterables + condensibles)	Throughput-based factor Uncontrolled factor input by user.	0	0.29		0.023925	0	0.023925	TONS	
PM2.5 Primary (includes filterables + condensibles)	Throughput-based factor Uncontrolled factor input by user.	0	0.29		0.023925	0	0.023925	TONS	
CO - Carbon Monoxide	Throughput-based factor Uncontrolled factor input by user.	0	0		0	0	0	TONS	
NOx - Nitrogen Oxides	Throughput-based factor Uncontrolled factor input by user.	0	0		0	0	0	TONS	
SO2 - Sulfur Dioxide	Throughput-based factor Uncontrolled factor input by user.	0	0		0	0	0	TONS	
VOC - Volatile Organic Compounds	Throughput-based factor Uncontrolled factor input by user.	0	0		0	0	0	TONS	
Ammonia	Throughput-based factor Uncontrolled factor input by user.	0	0		0	0	0	TONS	

Emission Factor Units

Material	Action	Throughput	Confidential	Units
Natural Gas	Burned	3.8	<input type="checkbox"/>	MILLION CUBIC FEET

Variable	Amount in Nature
HCg	

► Explanation

► Explanation

▼ Process Emissions

Criteria Air Pollutants/Other			Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time-based Factor (LBS/Hour)
Pollutant	Method Used	Hours Uncontrolled		
PM Primary (includes filterables > 10 microns + condensibles)	Throughput-based factor ▼	0	7.6	
PM10 Primary (includes filterables + condensibles)	Throughput-based factor ▼	0	7.6	
PM2.5 Primary (includes filterables + condensibles)	Throughput-based factor ▼	0	7.6	
CO - Carbon Monoxide	Throughput-based factor ▼	0	84	
NOx - Nitrogen Oxides	Time-based factor - Stack Test ▼	0	50	0.04
SO2 - Sulfur Dioxide	Throughput-based factor ▼	0	0.6	
VOC - Volatile Organic Compounds	Throughput-based factor ▼	0	5.5	
Ammonia	Throughput-based factor ▼	0	0.49	

Printable view

Export to excel

Engines

Throughput Options

Fuel Usage

- 1,000 gallons (diesel fuel)
- MM cf (natural gas or propane)

Horsepower-Hours (hp-hr)

Emission Factors Options

Throughput based

- lb/1,000 gallons (diesel fuel)
- lb/MM cf (natural gas or propane)

Time based

- lb/hour
- Different emission factors for each engine

Throughput based

- lb/hp-hr
- Different emission factors for each engine class

Time based

- lb/hour
- Different emission factors for each engine

Example 1 - Boilers

- Report emissions under the largest boiler
 - In this case, BOL001
- Enter total throughput (natural gas) used by all boilers in the group

FI0015461

BOL001 - 613.135Ton

PRC028

BOL002 - 0Ton

BOL003 - 0Ton

BOL004 - 0Ton

BOL005 - 0Ton

BOL006 - 0Ton

BOL007 - 0Ton

BOL008 - 0Ton

BOL009 - 0Ton

BOL010 - 0Ton

BOL011 - 0Ton

Process & Emissions Detail

PRC028: Source Classification Code (SCC) is 1-02-006-02

Material Information, Annual Average Operating Schedule & Throughput Percent

Maximum Hours Per Day:	24	Winter (Jan-Feb, Dec)%:	25
Maximum Days Per Week:	7	Spring (Mar-May)%:	25
Maximum Weeks Per Year:	52	Summer (Jun-Aug)%:	25
Actual Hours:	8,760.00	Fall (Sep-Nov)%:	25

Material	Action	Throughput	Confidential	Units
Natural Gas Burned		10.2	<input type="checkbox"/>	MILLION CUBIC FEET

Variable Amount in Natural Gas Units & Meaning	
HCg	1036 Gas Heat Content (Btu/Cubic Feet)

Example 1 - Boilers

- Enter emission factors – some may prepopulate
- Click “Save” to calculate emissions

Process Emissions

Criteria Air Pollutants/Other		Hours Uncontrolled	Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time- based Factor (LBS/Hour)	Emissions Reported				Explanation
Pollutant	Method Used				Fugitive Amount	Stack Amount	Total	Units	
PM Primary (includes filterables > 10 microns + condensibles)	Throughput-based factor Available factors: 1	0	7.6		0.03876	0	0.03876	TONS	
PM10 Primary (includes filterables + condensibles)	Throughput-based factor Available factors: 1	0	7.6		0.03876	0	0.03876	TONS	
PM2.5 Primary (includes filterables + condensibles)	Throughput-based factor Available factors: 1	0	7.6		0.03876	0	0.03876	TONS	
CO - Carbon Monoxide	Throughput-based factor Available factors: 1	0	84		0.4284	0	0.4284	TONS	
NOx - Nitrogen Oxides	Throughput-based factor Available factors: 1	0	100		0.51	0	0.51	TONS	
SO2 - Sulfur Dioxide	Throughput-based factor Available factors: 1	0	0.6		0.00306	0	0.00306	TONS	
VOC - Volatile Organic Compounds	Throughput-based factor Uncontrolled factor input by user. Available factors: 2	0	5.5		0.02805	0	0.02805	TONS	
Ammonia	Throughput-based factor Available factors: 1	0	3.2		0.01632	0	0.01632	TONS	

[Printable view](#)
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Mark other boiler emission units as Reported Under BOL001



Maricopa County
AIR QUALITY
DEPARTMENT

Example 2 - Crushers

- Choose 1 crusher to report emissions under
- Enter total throughput to all three crushers
 - If 144,000 tons went through each crusher report 432,000 tons

The screenshot shows the 'Process & Emissions Detail' window for crusher PRC019. On the left is a tree view of crushers, with PRC019 selected. The main panel displays the following information:

Process & Emissions Detail

▶ PRC019: Source Classification Code (SCC) is 3-05-025-10

▼ **Material Information, Annual Average Operating Schedule & Throughput Percent**

Maximum Hours Per Day:	24	Winter (Jan-Feb, Dec)%:	25
Maximum Days Per Week:	7	Spring (Mar-May)%:	25
Maximum Weeks Per Year:	52	Summer (Jun-Aug)%:	25
Actual Hours:	2,880.00	Fall (Sep-Nov)%:	25

Material Action Throughput Confidential Units

Product	Produced	432000	<input type="checkbox"/>	TONS
---------	----------	--------	--------------------------	------

Variable Amount in Product Units & Meaning

The variables table is empty because there are no variable process.

▶ Explanation

▶ Explanation

Edit Material/Schedule/Seasons

Example 2 - Crushers

- Enter emissions
- Click “Save” to calculate emissions

Process Emissions

Criteria Air Pollutants/Other			Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time-based Factor (LBS/Hour)	Emissions Reported				
Pollutant	Method Used	Hours Uncontrolled			Fugitive Amount	Stack Amount	Total	Units	Explanation
PM Primary (includes filterables > 10 microns + condensibles)	Throughput-based factor Uncontrolled factor input by user.	0	0.0054		1.1664	0	1.1664	TONS	
PM10 Primary (includes filterables + condensibles)	Throughput-based factor Uncontrolled factor input by user.	0	0.0024		0.5184	0	0.5184	TONS	
PM2.5 Primary (includes filterables + condensibles)	Throughput-based factor Uncontrolled factor input by user.	0	0.0024		0.5184	0	0.5184	TONS	
CO - Carbon Monoxide	Throughput-based factor Uncontrolled factor input by user.	0	0		0	0	0	TONS	
NOx - Nitrogen Oxides	Throughput-based factor Uncontrolled factor input by user.	0	0		0	0	0	TONS	
SO2 - Sulfur Dioxide	Throughput-based factor Uncontrolled factor input by user.	0	0		0	0	0	TONS	
VOC - Volatile Organic Compounds	Throughput-based factor Uncontrolled factor input by user.	0	0		0	0	0	TONS	
Ammonia	Throughput-based factor Uncontrolled factor input by user.	0	0		0	0	0	TONS	

Printable view

Export to excel

Example 2 - Crushers

- Mark other crusher emission units as Reported Under CSH019

Emissions Unit CSH020 Summary

Emissions Unit ID: CSH020

AQD Description (read-only): FEEDER CRUSHER

To edit AQD Description, go to Emissions Unit Information in the Facility Inventory.

EU Reporting Level: ☐ Detailed Emissions Reporting ☐ Less Than Reporting Requirement ☐ Did Not Operate ☒ Reported Under another EU

Emission Unit Id: CSH019 ▼



Hierarchy of Emission Calculation Methods

1. CEMS Data
2. Performance Tests
3. Material Mass Balance
4. AP-42 Emission Factors
5. Emissions estimates should be calculated by equivalent methods supported by back-up documentation that will substantiate the chosen method.

Helpful Hints

Click the triangles to see additional details.

Process & Emissions Detail

▼ **PRC004: Source Classification Code (SCC) is 2-03-004-01**

SCC Level 1: 2:Internal Combustion Engines

SCC Level 2: 03:Commercial/Institutional

SCC Level 3: 004:Diesel

SCC Level 4: 01:Large Bore Engine

Process Name: Emergency Engine #6

Company Process Description: 2014 CAT Engine - 658 HP

▼ Material Information, Annual Average Operating Schedule & Throughput Percent

Maximum Hours Per Day: 24

Maximum Days Per Week: 7

Maximum Weeks Per Year: 52

Actual Hours:

Material	Action	Throughput	Confidential	Units
Horsepower-Hours	Operated	pending	<input type="checkbox"/>	HORSEPOWER-HOURS

▼ Explanation

Helpful Hints

If the emission totals don't make sense, check how emissions were calculated.

Process Emissions

Criteria Air Pollutants/Other		Hours Uncontrolled	Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time- based Factor (LBS/Hour)	Emissions Reported			Units	Explanation
Pollutant	Method Used				Fugitive Amount	Stack Amount	Total		
PM Primary (includes filterables > 10 microns + condensibles)	<u>Throughput-based factor</u> Available factors: 1	8760	7.6		1.235	0	1.235	TONS	
PM10 Primary (includes filterables + condensibles)	<u>Throughput-based factor</u> Available factors: 1	8760	7.6		1.235	0	1.235	TONS	
PM2.5 Primary (includes filterables + condensibles)	<u>Throughput-based factor</u> Available factors: 1	8760	7.6		1.235	0	1.235	TONS	
CO - Carbon Monoxide	<u>Throughput-based factor</u> Available factors: 1	8760	84		13.65	0	13.65	TONS	
NOx - Nitrogen Oxides	<u>Throughput-based factor</u> Available factors: 1	8760	100		16.25	0	16.25	TONS	
SO2 - Sulfur Dioxide	<u>Throughput-based factor</u> Available factors: 1	8760	0.6		0.0975	0	0.0975	TONS	
VOC - Volatile Organic Compounds	<u>Throughput-based factor</u> Uncontrolled factor input by user. Available factors: 2	8760	5.5		0.89375	0	0.89375	TONS	
Ammonia	<u>Throughput-based factor</u> Available factors: 1	8760	3.2		0.52	0	0.52	TONS	

Printable view

Export to excel

Helpful Hints

Pollutant: PM Primary (includes filterables > 10 microns + condensibles)

Recommended Methods

Methods Explained

Factor(s)

Calculation of Emissions

► **Explanation - Totals**

Explanation - Heading Variables and Table Columns

Selected Calculation Method: Throughput-based factor

Pollutant: PM Primary (includes filterables > 10 microns + condensibles)

Actual Hours: 8,760

Throughput: 325

Uncontrolled Emissions Factor (Lbs/Throughput Units): 7.6

Based upon 1,000 units of emission

Stream Label	Flow %	Input	Type	Device ID	Hours Uncontrolled	Pollutant Control Used	Control Efficiency %	Capture Efficiency %	Uncaptured		Captured										Total Output	
									Fugitive Emissions Included in Total	Uncontrolled Emissions					Capture Controlled Emissions							
										Output Units	Included in Total			Output Units	Included in Total for Throughput-based Only							
											Fugitive Units	Stack TONS			Fugitive Units	Stack TONS						
0		1,000						0.0	1,000	1.235	0					0						0
Printable view									Export to excel		Fugitive Total TONS: 1.235										Stack Total TONS: 0	

Confidential Data

- Information submitted in annual emissions reports must be made available to the public ... unless a person
 - Precisely identifies the information which is considered confidential, and
 - Provides sufficient documentation allowing the Control Officer to determine if the information is a trade secret.
- Trade secret means
 - Reasonable measures have been taken to prevent disclosure
 - The information is not reasonable obtainable without consent
 - No statute requires disclosure of the information to the public
 - The person has shown that disclosure is likely to cause substantial harm to the business's competitive position.

Confidential Data

- To identify data as confidential, select confidential (next to throughput) and add a justification
- Only the throughput is confidential - do not enter any other confidential data

Process & Emissions Detail

▶ PRC010: Source Classification Code (SCC) is 4-02-999-98

▼ Material Information, Annual Average Operating Schedule & Throughput Percent

Maximum Hours Per Day: 24
Maximum Days Per Week: 7
Maximum Weeks Per Year: 52
Actual Hours: 8,760.00

Winter (Jan-Feb, Dec)%: 25
Spring (Mar-May)%: 25
Summer (Jun-Aug)%: 25
Fall (Sep-Nov)%: 25

Select Only One	Material Action	Throughput Confidential	Units
	Coating Processed	<input type="checkbox"/>	TONS
selected	Material Processed	50000 <input checked="" type="checkbox"/> Justification	GALLONS
	Solvent Used	<input type="checkbox"/>	TONS

▶ Explanation

Variable Amount in Material Units & Meaning

The variables table is empty because there are no variables in the formula associated with the FIRE rows for this process.

▶ Explanation

Confidential Data

- Delete any prepopulated emission factors
- Select “Emissions” method
- Enter fugitive and stack emissions

Criteria Air Pollutants/Other			Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time-based Factor (LBS/Hour)	Emissions Reported				
Pollutant	Method Used	Hours Uncontrolled			Fugitive Amount	Stack Amount	Total	Units	Explanation
PM Primary (includes filterables > 10 microns + condensibles)	Emissions ▼				0	0		TONS ▼	add
PM10 Primary (includes filterables + condensibles)	Emissions ▼				0	0		TONS ▼	add
PM2.5 Primary (includes filterables + condensibles)	Emissions ▼				0	0		TONS ▼	add
CO - Carbon Monoxide	Emissions ▼				0	0		TONS ▼	add
NOx - Nitrogen Oxides	Emissions ▼				0	0		TONS ▼	add
SO2 - Sulfur Dioxide	Emissions ▼				0	0		TONS ▼	add
VOC - Volatile Organic Compounds	Emissions ▼				0	67.5		TONS ▼	trade secret
Ammonia	Emissions ▼				0	0		TONS ▼	add

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The following information was developed using (Arizona) DEQ-generated pollutant emission calculations. The values may be provided to USEPA by the (Arizona) DEQ. You may modify these (Arizona) DEQ-generated emission calculations if you have more accurate information.

Hazardous Air Pollutants/Greenhouse Gases/Other				Uncontrolled Emissions Factor (Lbs/Throughput Units)	Time-based Factor (LBS/Hour)	Emissions Reported				
Select Pollutant	Method Used	Hours Uncontrolled				Fugitive Amount	Stack Amount	Total	Units	Explanation
<input type="checkbox"/> Toluene	Emissions ▼						67.5		TONS ▼	trade secret

[Add Emission](#)

[Delete Selected Emission\(s\)](#)

[Printable view](#)

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Confidential Data

- Upload two emission calculation documents
 - Trade Secret (contains confidential data)
 - Public Document (confidential data must be removed)
- Upload a letter
 - Justify that confidential data is a trade secret (as defined in A.R.S.)

Review Emission Totals

EI0015916

- BOL001 - 0Ton
- BOL002 - 19,535.3Ton
 - PRC003
- TNK001 - 6.17855Ton
 - PRC001
- TNK002 - 0Ton

Emissions Inventory Summary

Explanation

- Use the Exclude/Include Emissions Units button to indicate which emissions units:
 - Did not operate at all during the year
 - Emitted less than the reporting requirement
 - Do require detailed emissions inventory reporting
- For each Emissions Process that requires detailed emissions inventory reporting, navigate to that Process and provide the necessary information
- Attach any files needed to support the reported emissions

Regulatory Requirement(s): Title V Program

Facility Emissions

Fee: \$186,586.23
Per Ton Fee for the year: \$46.20
 Previous emissions inventory fee \$285.44 will be automatically adjusted at the time of payment.
 If the current fee is less than the previous emissions inventory fee, please contact the Air Quality Department for any applicable refund.

Criteria Air Pollutants/Other		Emissions Reported			Total	Units
		Fugitive Amount	Stack Amount			
PM Primary (includes filterables > 10 microns + condensibles)	Locate	1.235	0		1.235	TONS
PM10 Primary (includes filterables + condensibles)	Locate	1.235	0		1.235	TONS
PM2.5 Primary (includes filterables + condensibles)	Locate	1.235	0		1.235	TONS
CO - Carbon Monoxide	Locate	13.65	0		13.65	TONS
NOx - Nitrogen Oxides	Locate	16.25	0		16.25	TONS
SO2 - Sulfur Dioxide	Locate	0.0975	0		0.0975	TONS
VOC - Volatile Organic Compounds	Locate	6.17845	0		6.17845	TONS
Ammonia	Locate	0.52	0		0.52	TONS

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Title V Fees

- Emissions-based fee - \$47.50/ton

Emissions Inventory Summary

Explanation

- Use the Exclude/Include Emissions Units button to indicate which emissions units:
 - Did not operate at all during the year
 - Emitted less than the reporting requirement
 - Do require detailed emissions inventory reporting
- For each Emissions Process that requires detailed emissions inventory reporting, navigate to that Process and provide the necessary information
- Attach any files needed to support the reported emissions

Regulatory Requirement(s): Non-Title V Program

Facility Emissions

Fee: \$0.00
Per Ton Fee for this year: \$0.00

Pollutant	Criteria Air Pollutants/Other	Emissions Reported			Total	Units
		Fugitive Amount	Stack Amount			
PM Primary (includes filterables > 10 microns + condensibles)	Locate	0.00279601	0		0.00279601	TONS
PM10 Primary (includes filterables + condensibles)	Locate	0.00138761	0		0.00138761	TONS
PM2.5 Primary (includes filterables + condensibles)	Locate	8.29584E-04	0		8.29584E-04	TONS
CO - Carbon Monoxide	Locate	0	0		0	TONS
NOx - Nitrogen Oxides	Locate	0	0		0	TONS
SO2 - Sulfur Dioxide	Locate	0	0		0	TONS
VOC - Volatile Organic Compounds	Locate	38.76	0		38.76	TONS
Ammonia	Locate	0	0		0	TONS

Printable view Export to excel

Attachments

Status	Attachment ID	Attachment Type	Description	Trade Secret Document	Trade Secret Justification	Uploaded By	Upload Date
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Add Printable view Export to excel

To Delete the attachment, or to Edit attachment description, click in the Attachment ID column.

Data Entry Wizard Exclude/Include Emissions Units Validate Submit

Associate with Different Facility Inventory Download/Print Download/Print Trade Secret Version Show Fee Details

Final Steps

- Add notes
- Attach calculation spreadsheets, trade secret documents, public documents, and supporting information
- Validate

Attachments

Attachment ID	Attachment Type	Description	Trade Secret Document	Trade Secret Justification	Uploaded By	Upload Date
4	Calculations	VOC	None Provided	N/A	Beck, Kristi	3/2/2020

[Add](#) [Printable view](#) [Export to excel](#)

To Delete the attachment, or to Edit attachment description, click in the Attachment ID column.

Reason/Explanation for Emissions Inventory Revision

Showing how to validate

Notes

Note ID	Note	User Name	Date
---------	------	-----------	------

[Add](#) [Printable view](#) [Export to excel](#)

[Data Entry Wizard](#) [Edit](#) [Exclude/Include Emissions Units](#) [Validate](#) [Delete Inventory](#) [Create Revised Emissions Inventory](#) [OnBase Documents](#)

[Show Associated Facility Inventory](#) [Associate with Different Facility Inventory](#) [Compare Emissions Inventories](#) [Download/Print](#) [Show Fee Details](#)

Correct Errors

Click message to go to error location

Severity	EU ID	Message
ERROR	ABS001	P:PRC001:Emissions values missing for PM10 Primary (includes filterables + condensibles)
ERROR	ABS001	P:PRC001:Emissions values missing for CO - Carbon Monoxide
ERROR	ABS001	Attribute: P:PRC001:Schedule: Actual Hours is not set.
ERROR	ABS001	P:PRC001:No Material Selected
ERROR	ABS001	P:PRC001:Emissions values missing for SO2 - Sulfur Dioxide
ERROR	ABS001	P:PRC001:Emissions values missing for PM2.5 Primary (includes filterables + condensibles)
ERROR	ABS001	P:PRC001:Emissions values missing for NOx - Nitrogen Oxides
ERROR	ABS001	P:PRC001:Emissions values missing for PM Primary (includes filterables > 10 microns + condensibles)
ERROR	ABS001	P:PRC001:Emissions values missing for VOC - Volatile Organic Compounds
ERROR	ABS001	P:PRC001:Emissions values missing for Ammonia

Ignore Warnings

Validation results - Google Chrome

airimpact.stage.maricopa.gov/util/validationResults.jsf

Severity	EU ID	Message
WARNING	BOL001	P:PRC003:Fugitive Emissions are very high for Carbon Dioxide, please check to ensure this is correct. Should they be stack emissions instead?

Printable view Export to excel

Close

Validated

Green ✓ - ready to submit

<div><div>✓ E100001</div><div>ENG001<ul style="list-style-type: none">PRC001</div><div>ENG002<ul style="list-style-type: none">PRC002</div><div>SVC001<ul style="list-style-type: none">PRC003</div></div>	<div><h3>Emissions Inventory Summary</h3><div>▼ Explanation</div><ul style="list-style-type: none">Use the Exclude/Include Emissions Units button to indicate which emissions units:<ul style="list-style-type: none">Did not operate at all during the yearEmitted less than the reporting requirementDo require detailed emissions inventory reportingFor each Emissions Process that requires detailed emissions inventory reporting, navigate to that Process and provide the necessary informationAttach any files needed to support the reported emissions<div>Regulatory Requirement(s): Non-Title V Program</div><div>Date inventory received:</div></div>
--	--

Emissions Inventory Detail

Task - Emissions Inventory for 2020 (EI0015913) >

Emissions Inventory Detail

Facility ID: F006332
Facility Name: AQ Production Validation
Content Type: Annual

Emissions Inventory ID: EI0015913

Submitted: No

Completed Date:

Reporting State: Not Filed

Click Submit on the
Task – Emissions Inventory
tab to submit all three tasks.

- ✓ EI0015913
 - ⊗ COT001 - 38.76Ton
 - ⊙ PRC009
 - ⊗ COT002 - 0Ton
 - ⊗ CSH001 - 3.82E-05Ton
 - ⊙ PRC001
 - ⊗ CSH002 - 0.004975Ton
 - ⊙ PRC002
 - ⊗ CSH003 - 0Ton
 - ⊗ CSH004 - 0Ton
 - ⊗ CSH005 - 0Ton
 - ⊗ CSH006 - 0Ton
 - ⊗ CSH007 - 0Ton
 - ⊗ CSH008 - 0Ton
 - ⊗ CSH009 - 0Ton
 - ⊗ CSH010 - 0Ton
 - ⊗ FUG001 - 0Ton
 - ⊗ MAT001 - 0Ton
 - ⊗ MAT002 - 0Ton
 - ⊗ SVC001 - 0Ton

Emissions Inventory Summary

Explanation

- Use the Exclude/Include buttons
 - Did not operate at
 - Emitted less than
 - Do require detailed
- For each Emissions Process
- Attach any files needed to

Regulatory Requirement(s): Non-Title V Program

Facility Emissions

Fee: \$0.00

Per Ton Fee for the year: \$0.00

Criteria Air Pollutants/Other		Emissions Reported		
Pollutant		Fugitive Amount	Stack Amount	Total Units
PM Primary (includes filterables > 10 microns + condensibles)	Locate	0.00279601	0	0.00279601 TONS
PM10 Primary (includes filterables + condensibles)	Locate	0.00138761	0	0.00138761 TONS
PM2.5 Primary (includes filterables + condensibles)	Locate	8.29584E-04	0	8.29584E-04 TONS
CO - Carbon Monoxide	Locate	0	0	0 TONS
NOx - Nitrogen Oxides	Locate	0	0	0 TONS
SO2 - Sulfur Dioxide	Locate	0	0	0 TONS
VOC - Volatile Organic Compounds	Locate	38.76	0	38.76 TONS
Ammonia	Locate	0	0	0 TONS

Printable view

Export to excel

The following information was developed using {Arizona} DEQ-generated pollutant emission calculations. The values may be provided to USEPA by the {Arizona} DEQ. You may modify these {Arizona} DEQ-generated emission calculations if you have more accurate information.

Hazardous Air Pollutants/Greenhouse Gases/Other		Emissions Reported		
Pollutant		Fugitive Amount	Stack Amount	Total Units

Printable view

Export to excel

Attachments

Status	Attachment ID	Attachment Type	Description	Trade Secret Document	Trade Secret Justification	Uploaded By	Upload Date

Add

Printable view

Export to excel

To Delete the attachment, or to Edit attachment description, click in the Attachment ID column.

Data Entry Wizard

Exclude/Include Emissions Units

Validate

Submit

Associate with Different Facility Inventory

Download/Print

Show Fee Details

Electronic Signature

- Title V emissions inventories must be submitted by a responsible official.
 - Corporation
 - President, secretary (corporate), treasurer, or vice-president
 - Any other person who performs similar policy or decision-making functions for the corporation
 - A duly authorized representative approved in advance by the MCAQD
 - A general partner or the sole proprietor
- Non-Title V emissions inventories can be submitted by any authorized representative (not a consultant).

Electronic Signature

- Password + Security Question
 - Do not share these credentials
- Be sure to enter credentials correctly
 - You will be locked out after two failed attempts

Submission may take several minutes depending on the amount of data being processed.

Username: kristibeck

*** Password:**

Security Question: What was your first pet's name?

*** Answer:**

Reset Signature Questions

Maricopa.gov/1820

✖ Error

1. User reached max number of answer attempts.
2. Please contact the Help Desk if you need assistance.

Submission may take several minutes depending on the amount of data being processed.

Username: kristibeck

* Password:

Security Question: What is your favorite pet's name?

* Answer:

Submit

Cancel

Troubleshooting SCS

- [Adding a New Role to an Existing Organization in SCS](#)
- [Resetting SCS Account Security Questions](#)



Title V Fees

- Invoice is generated when inventory is submitted

Version 13.0 | Build ID: 26.35.0
Welcome kristibeck

Facility Selector Asbestos Notification Settings

IMPACT Home Task - Facility Contact Change Task - Emissions Inventory for 2021 (EI0016679) **Invoices**

Tasks | Current Facility Inventory | Current Owner | Contacts | Applications | Emissions Inventories | Permits | Compliance Reports | Inspection Reports | Performance Test Protocols | External References | Spatial Data

IMPACT Home >
Invoices

Facility ID: F006332 Facility Name: AQ Production Validation County: Maricopa Version Start Date: 11/18/2021
Facility Type: Other (Unknown) Company Name: AQ Production Validation Version End Date: Current

Invoice ID	Facility Name	Company ID	Company Name	Invoice Type	Reference Number	Invoice Status	Created Date	Due Date	Total Charges	Total Payments	Total Credits	Balance
IV013245	AQ Production Validation	CMP004063	AQ Production Validation	Permit Application	A0000980	Posted	11/13/2020	12/13/2020	\$0.00	\$0.00	\$0.00	\$0.00
IV020134	AQ Production Validation	CMP004063	AQ Production Validation	Permit Application	A0002651	Posted	5/22/2021	6/21/2021	\$0.00	\$0.00	\$0.00	\$0.00
IV027067	AQ Production Validation	CMP004063	AQ Production Validation	Emissions Inventory	EI0016675	Posted	11/10/2021	2/8/2022	\$2,635.17	\$0.00	\$0.00	\$2,635.17

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- Pay online
 - Credit card
 - E-check
- Late fee is added for late payments

Emissions Inventory Review

- Compare EI to the permit and the technical support document
 - Completeness
 - Processes
 - Pollutants
 - Accuracy
 - Emission factors
 - Capture and control efficiency
 - Are emissions within permitted limits?
- Electronic signature

El Assistance

- Email
 - EmissionsInventory@maricopa.gov
- Phone
 - (602) 506-6790

- Book an online consultation
 - Maricopa.gov/5628

Book an Online Consultation

- Create an SCS Electronic Signature and gather all operational records prior to the meeting

Questions



Thank you.

EmissionsInventory@maricopa.gov
(602) 506-6790

